

Systemorph Vertex

An End-to-End Solution for IFRS 17

→ **FACTSHEET**

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Systemorph Vertex is a powerful and user-friendly foundation for implementing bespoke IFRS 17 solutions. It covers all your infrastructure needs and provides a flexible and collaborative user experience to formalize your reporting with increased data quality and highly efficient data management processes. The solutions integrate end-to-end with your existing systems – using what is there and adding additional functionality where needed - and processes to minimise cost of change and operational impact. The solution fits perfectly for large and medium-sized international insurance companies with the Systemorph team and its partners being used to work with this target group since its foundation.

Data Aggregation, Drill-Down, Slice and Dice
 → For figures, comments and formulas

Reports and Visualization
 → All calculations on the fly
 → Graphs and tables available

Data Analytics
 → Alerts for data validation and movements
 → Propagation and aggregation of validation according to your business rules

IFRS 17 Calculations
 → P&L, Contractual Service Margin, Loss Component, Risk Adjustment, etc.
 → Analysis of Change, Experience Variation and much more

Collaboration
 → Add comments or ask questions

Full Transparency and Audit Trail
 → All formulas are tracked and all dependencies are navigable
 → Full audit trail to all changes in the system (fully versioned)

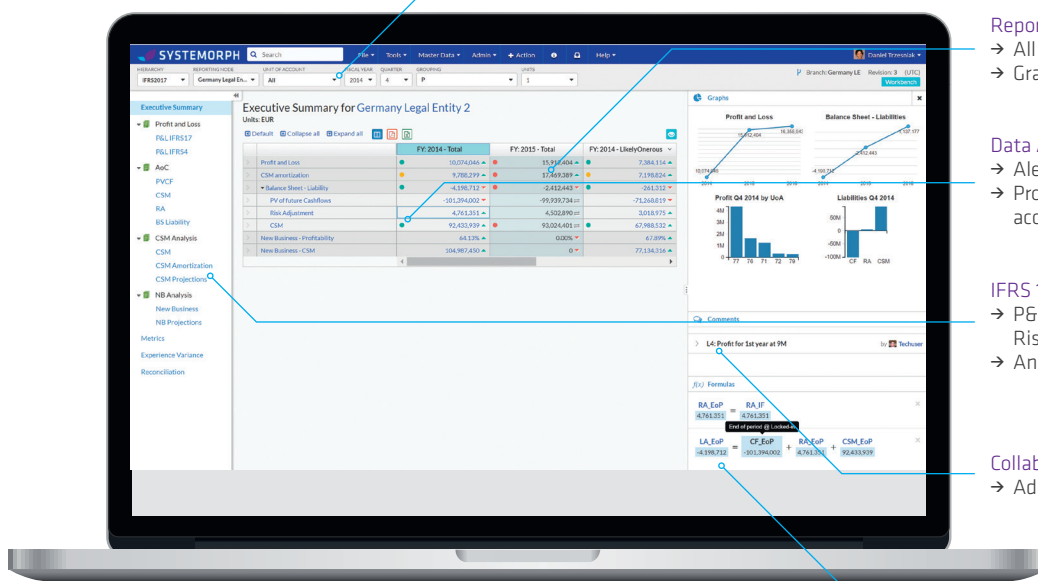


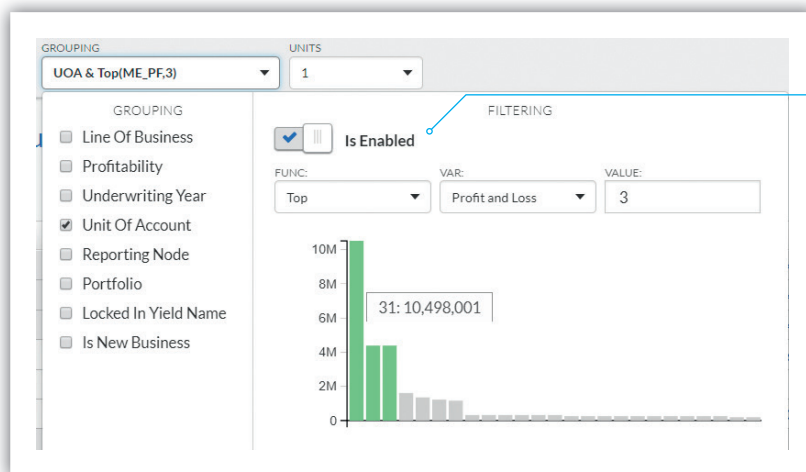
Figure 1: Overview on key features of highly customizable front-end

Global and Local Reporting

All reports, local and global, can be viewed by all users, given the correct access rights are assigned to them. This allows for a common understanding and discussion of reports between all stakeholders involved. Generally, all reports are real-time and interactive: slicing and dicing, as well as smart navigation allow for switching between reports to quickly gain a comprehensive understanding of your data and how it changes from one reporting period to another.

Guided Analytics and Data Validation

Even with fully integrated interfaces to data providing systems, it is possible that the data sourced contains errors or unexpected values that need further investigation. Our IFRS 17 solutions enable you to define validation rules in advance which are automatically applied to data elements. Your validation rules are applied on the fly, and any erroneous data is shown in a user-friendly way: failing data elements can be filtered, sorted, and navigated in an intuitive way. Step by step, users are guided to the source of the problem, which allows them to quickly understand why data is erroneous and what must be done to fix the errors.



Smart grouping/filtering to show only information that is relevant to the user



The relative importance of a validation rule is taken into account

Traffic Lights guide users to where the problems really are

Figure 2: With Traffic Lights and Guided Analytics, users are directed to where the source of the problem really is

Interfaces to Actuarial Software

For cash-flow calculation, the corresponding policy data and the economic assumptions can be exported to actuarial software. The calculation results can be imported again into Systemorph Vertex for consolidated reporting. This provides an integrated end-to-end data view. All inputs to actuarial calculations are kept together with the results and global reports. This allows for complete data lineage from each final statement down to the input data to the actuarial process.

Process Management

Systemorph Vertex allows the company to define business process end-to-end. Even the non-linear and complex workflows behind IFRS17 become easily understandable in our solution. The process managers quickly have a full overview on where everyone stands, what has been done and what is outstanding. With just a few clicks, the full details on each process becomes available.

Multiple statuses can be defined to support your business process (including non-linear workflows)

Full transparency of the sign-off process

Detailed information for each report including full history and audit trail

Overview of the reporting status for each business unit (reporting node)

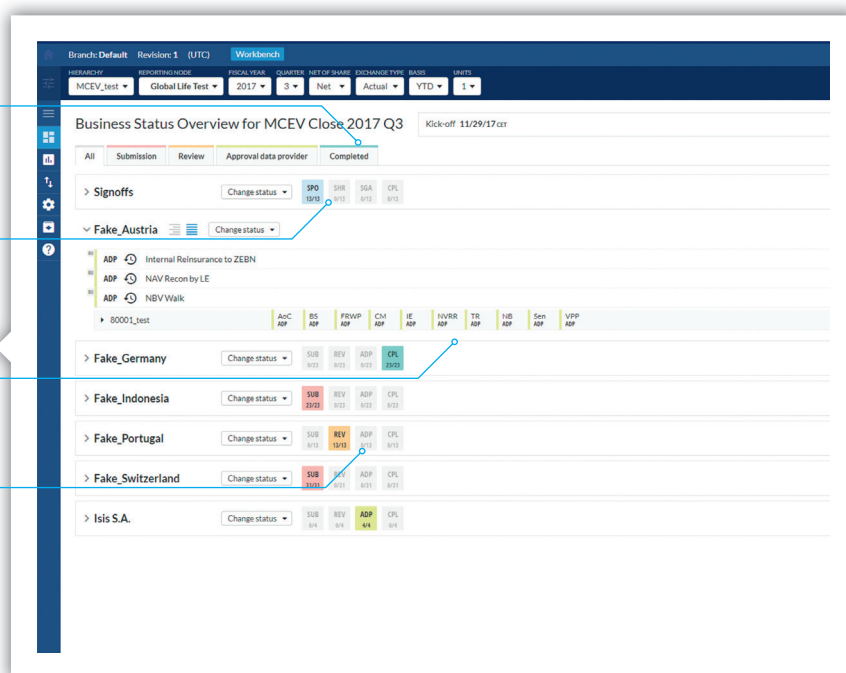


Figure 3: Reporting status: real-time and comprehensive

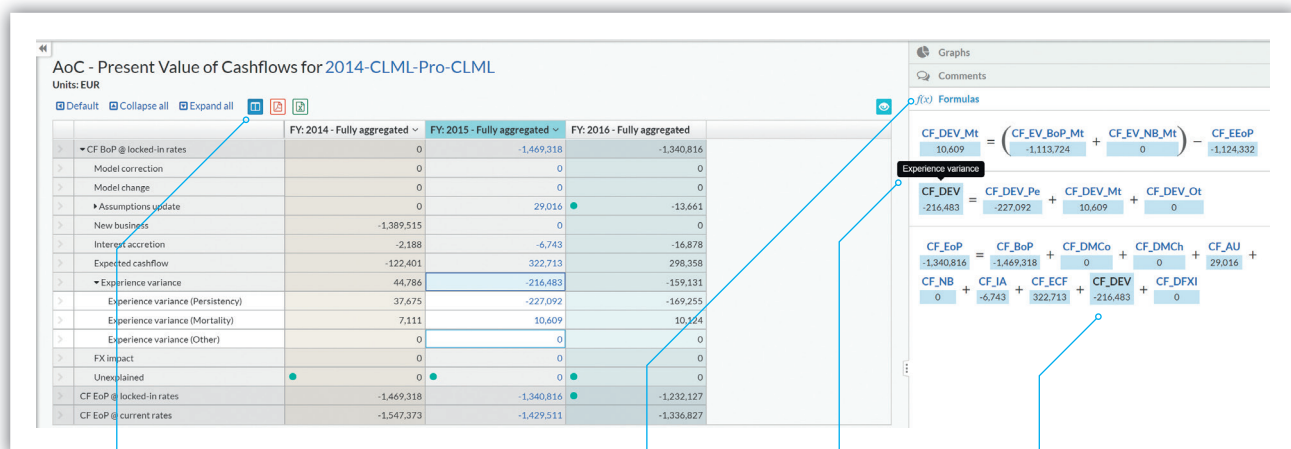
Global End-to-End Data Language

Systemorph Vertex allows to create a global and integrated data language. All data elements can be modelled from global economic assumptions over policy data, financials, to the final reports. Special modelling features allow you to localize data language by business unit: Local specialties can be incorporated and yet mapped consistently to the global data language.

Advanced Reporting Framework

Personalize all reports to your business needs. With Systemorph Vertex you have full control on how the reports look like. You can configure all formulas, adjust validation rules and define drill-downs, compare results, configure charts and much more... All this will be automatically versioned, and the data and methodology used to produce past results can always be revisited.

Figure 4: Comparison view together with formula debug show current, past and future results calculated according to the current methodology



Comparison between past and future years provide full overview

Formula debug view offers full transparency for all the reports

Speaking names for the variables appear on the screen when requested

Visual highlights help users to identify dependencies

Modern Infrastructure – Instantaneous Results

Thanks to the modern infrastructure design, exchange and transfer of large amounts of data is avoided. All necessary data is already at the right place, and the Systemorph Vertex Versioning component takes care of controlling access rights i.e. allows you to conveniently define what data is exposed to which audience at which point in time. In our solutions, all calculation happens on the fly: once new data is available, the system will show the updated results instantaneously, with the calculation never being out-of-sync and users never having to wait for a batch run to complete.

Intuitive Collaboration

Several features support the collaboration between individual users, user groups like e.g. business units and central reporting teams who cover the whole company. All users can directly comment on all figures without leaving the tool, so that questions on the accuracy and correctness of data can be logged and answered in an audit-proof way. From all over the application, tickets can be created by a single click and assigned to other users for follow-up action. Once tickets are completed, the originating user is notified and can verify that the desired result has been achieved. Comments, questions and action items can be viewed side by side with your data, without the need for email or a separate documentation tool or process.

The screenshot displays the Systemorph Vertex interface. On the left, a table titled "NBV KPIs for UK" shows data for Fiscal Year 2015, Quarter 4. The table has columns for KPI and Comparison Basis. The KPIs listed are APE, NBV, and NBM, each with three comparison basis options: last year (Q4) on a YTD basis, last year (Q4) on a QD basis, and last quarter (Q3) on a QD basis.

On the right, a collaboration panel shows three tickets:

- Ticket 1:** Status: OPEN. Title: "Please correct results (AC703)". Description: "Can you please verify the accuracy of these data elements?". Created by: Roland Buergi. Date: FEB 19, 2017 5:06:24 PM.
- Ticket 2:** Status: OPEN. Title: "Action #1 for Reporting NodeAustria: P n JIC8 DG YWh7Sa (AC665)". Description: "Description #1 for Reporting NodeAustria: X J aTDUnqR GGgO 4O Qk1z PaMK p 1u8P9o S Uc7c RhoTYyvOSS IcCi q p li94ad T g4v uuEurDWFSq8JbY LFY". Created by: Roland Buergi. Date: FEB 8, 2017 10:19:02 AM.
- Ticket 3:** Status: CLOSED. Title: "Question #1 for Reporting Node Austria: Austria (AC657)". Description: "Question #1 for Reporting Node Austria: p Zws1YcMW 6qv3 s5B evyREDqNI6n efBKU1WJfHQqcD5 MqL I4APZxH A0 mcqYqTILyIp1a AYSsu7 10IQYWuuuhq". Created by: Roland Buergi. Date: FEB 8, 2017 10:19:02 AM.

Figure 5: With Systemorph Vertex, you never lose the link between your data and your documentation

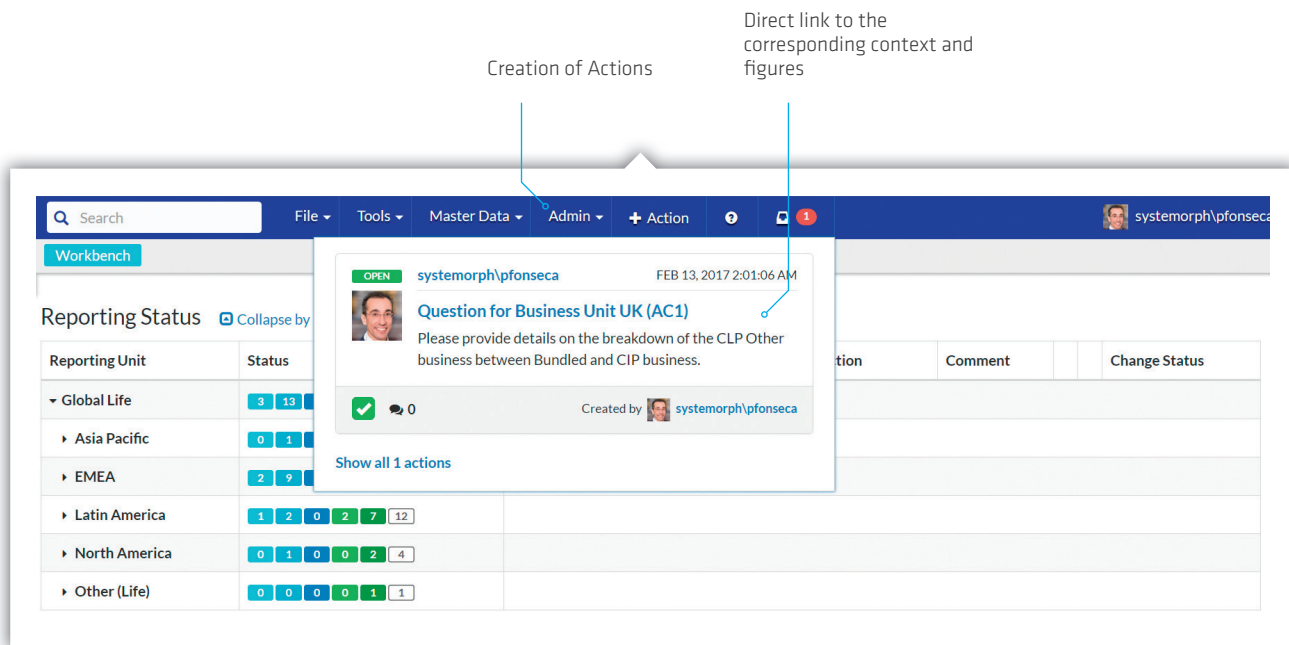


Figure 6: Process documentation is generated and tailored to the right audience (management, regulator, rating agencies...).

Process Documentation

KPIs can be commented directly in the application. Questions can be asked from any report view. This leads to an accurate and self-creating process documentation. From any result views, the documentation can be viewed.

About Systemorph

Founded in 2011 Systemorph AG is a privately held technological company specialized in building data driven software solutions for the financial services market. The company aims for streamlining and simplifying the management of data centric functions by providing custom focused solutions with short implementation times with ongoing application management and support during the entire lifecycle of the solution at unmatched cost in a very customer friendly way. The technical basis is the powerful and proven Systemorph Vertex Smart Data Platform.

Systemorph employs more than twenty-five employees in three locations. The headquarter is located in Switzerland. Systemorph also counts with a representation office in Germany. Additionally, Systemorph has an office in Russia, where most of the IT developers for the infrastructure are located. Systemorph is a Microsoft Gold Partner.

Get in touch with us to find out how we jointly can find solutions for your data centric challenges!

Further information:
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