PROFIDATANEWS

OPTIMIZED SYNERGIES

XENTIS INVESTMENT MANAGEMENT SOLUTION

XLab INVESTMENT SOFTWARE INNOVATION

e-AMIS WEALTH MANAGEMENT SOLUTION

xpass DIGITAL SECURITIES WORKFLOW

RiskLine MARKET DATA VALIDATION SYSTEM

FundLine FEE & COMMISSION AUTOMATION SYSTEM

RiskRadar RISK REPORTING PROCESS

Editorial

DEAR CUSTOMERS

Looking back over the past 15 months since the last issue of our customer magazine, it becomes obvious that many things can no longer be taken for granted.

In the face of geopolitical instability and macro-economic headwinds coming in the form of supply chain disruptions as well as sharply rising inflation and interest rates, we at Profidata are convinced that it is all the more important, especially now, to move even closer together and to continue to convey continuity and reliability to our employees and to you, our valued clientele. In this context, we would of course also have been pleased to be able to welcome you in person once again at our user conference, but we ask you to understand that we are postponing this project for another year. However, the decision in favour of the virtual format once again is also accompanied by a significant advantage. It is a pleasure for us not only to be able to inform you about developments in Profidata and XENTIS during the 'Virtual Profidata Group Day', as well as with our customer magazine 'Profidata News', which is published online at the same time, but also to give you an insight into the entire range of solutions and services offered by all Profidata Group companies. This has been made possible by the successful transformation in recent years from a pure software manufacturer, which also provides implementation and support services, to a service provider optimising all synergies within the group, the Profidata 'One-Stop-Shop'. Profidata Managed Solutions, which has significantly expanded its range of services since the official start of operations in June 2020, makes a considerable contribution to this. In the article 'Steady further development to a full-service company', we are pleased to introduce you to the individual innovations. In the course of the continuous further development of the services within the Profidata Group, it was also possible to merge the experience and expertise of no less than three Profidata Group companies into a scalable solution for the proper valuation of both liquid and OTC assets. Read more about this in the article 'Profidata Valuation Service'.

Good news with regard to the expansion of our range of products and services also reached us from Profidata Frankfurt. The new tax service offering initiated together with KPMG Germany, which under the name IFTaaS (Investment Fund Taxation as a Service) will further enable KPMG to carry out tax calculations for special investment funds on an XENTIS instance operated by Profidata, passed its baptism of fire this year with our XENTIS customer Helaba Invest and successfully went into operation. Read more about this in the article 'IFTaaS®: Investment Fund Taxation as a Service'.

Despite the challenging market environment for all players, the Profidata Group can look back on another successful financial year. Thanks not only to our increased presence on social media and at (virtual) trade fairs, but also to your valued client references, we succeeded in keeping demand for our solutions high in particular in the German speaking 'DACH-region'. With PAX Asset Management in Basel, which belongs to PAX Versicherung, the second largest Swiss insurance company, after Mobiliar, opted for Profidata and will go live with the Xcloud solution before the end of this year. With the Sparkasse KölnBonn, who

had opted for XENTIS by the end of 2021, the leading market position of XENTIS in the German depository business was also cemented.

Our commitment and increased involvement in positioning ourselves in the market together under the Profidata Group umbrella with solutions along the entire customer value chain also bore fruit. For example, at the end of last year, the Evangelische Bank opted for the combination offer of 'XENTIS and xpass Cloud'. This is also a premiere for the Profidata Group, as it is the first time that a cloud solution has been realised for the offering of the group company itechx at Profidata Managed Solutions.

In connection with our 'Profidata One-Stop-Shop', it remains to be mentioned that no less than three XENTIS customers have opted to use the RiskRadar service of our group company Arkus in conjunction with XENTIS.

At the same time, numerous (new) customer projects and the continually increasing requirements of recent years have meant that we have also made considerable efforts in recent months to strengthen our consulting and project organisation with new forces. Last, but not least, we have further intensified our investments in positioning ourselves as an attractive employer. As you can read in the article 'Profidata on the move', the working atmosphere, the attractiveness of the location and a modern infrastructure are of great importance in this context.

Our WM-Datenservice customers will certainly be interested to read in another article in the customer magazine how Profidata is pulling out all the stops to prepare our XENTIS customers for the start of the 'EDDy_neu' production operation by Easter. Furthermore, we are pleased to be able to present the function of the 'suitability reporting' required by MIFID II to our long-standing e-AMIS customers.

Finally, we will of course give you an insight into the numerous XENTIS developments in this issue of our magazine. In addition to strategic development topics, such as the improved mapping of alternative investments in XENTIS, the more convenient handling and administration of performance data or the integration of a document management system, noteworthy releases and reporting enhancements were, and are, also being implemented in the core areas of XENTIS. Also worth mentioning here is the inclusion of additional country rule sets in investment compliance or regulatory induced innovations around ESG, EMIR, PRIPP-KID and GIPS.

But enough of the preface, we hope to provide you with interesting insights and information in this issue of Profidata News and hope you enjoy reading it. Stay in touch with us, but above all, stay healthy!

Roger Wildi
CEO Profidata

CONTENT

Profidata Managed Solutions – Continuous development as a full-service company

Since the initial idea in 2018 to offer a SaaS offering in a specialised and regulated Profidata company, Profidata Managed Solutions AG (PDM) has developed significantly in terms of organisation and offering.

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Richard Kauppert
Dr. Joachim Wack

Whereas legal and technical issues were in the foreground at the beginning, questions about organisation and the scope of services are now gaining ground. However, this does not mean that the formal requirements are decreasing. Rather, the requirements of national and international regulations must continue to be analysed and incorporated into the organisational regulations. By taking into account the regulations of the European and Swiss supervisory authorities, the PDM ensures that the services continue to be provided in a certified high technical, regulatory and professional quality.

Since the official start of operations in June 2020, PDM has significantly expanded its range of services:

3 Fail-safe private cloud environments
· based on the latest technological standards
· specially designed for customers of of different sizes
· optimised for EU & non-EU jurisdictions
· operated according to all relevant regulatory requirements
2 Public Cloud environments
19 XENTIS / e-AMIS Software as a Service Installations
15 WM service customers
5 SIX service customers
3 XLab Web-native applications
1 XENTIS full-service customer
1 XENTIS / xpass service customer (current migration project)
1 WM Search Service
1 Investment Fund Taxation as a Service (IFTaaS) for the fund industry

The range of services includes hosting, application management, static data and business services:

PROFIDATA MANAGED SOLUTIONS

Hosting
· Cloud infrastructure for Profidata applications

· Automation & monitoring of the infrastructure

· Infrastructure and service design also for container and cloud native based applications

Static Data
· WM / Six data feed
· WM search service
· Interface maintenance
· Interface management

Application Management
· XaaS
· XDOaaS
· e-AMISaaS
· xpassaaS
· Fund-RiskLineaaS

Business Services
· IFTaaS®
· Full Service Asset Manager
· Interface Management

The provision of this range of services is also reflected in the development of the PDM organisation. While Managed Solutions started in mid-2019 with just a few employees based in Frankfurt, it has shown strong growth to date and is active at three production locations across Europe. In addition, there are now around 60 'onboarded' employees at the providers of our private clouds. This growth, as well as the establishment and further development of an ISAE-compliant internal control system, impressively documents the successful work of PDM and the acceptance of the PDM offering in the fund market. This is particularly evident in the increasingly significant share of PDM in the Profidata Group's total turnover.

A particular challenge here is to efficiently connect the different locations with their individual advantages while at the same time complying with local requirements. For example, some customers want the service to be provided only from certain regions. Fortunately, this can easily be accommodated within the PDM organisational structure.

PDM benefits from the structures already created by the Profidata Group, especially the

PDM German Office

· PDM Management

· IT Operations
· Application Management
· Engineering

· Business Service
· Shadow Accounting

PDM Swiss Office

· Business Service
· Static Data Service

· IT Operations
· Application Management
· Engineering

· Service Desk (powered by PDS)

PDM Romanian Office

· Business Service
· Shadow Accounting
· Static Data Service

· Application Management
· IT Operations

production site in Romania. Not only our WM customers appreciate the time difference to Romania, which enables early provision and monitoring of the various services.

Another building block for efficient service is the increasing automation of routine activities. Building blocks such as the development of a corresponding customer self-service for the on/off boarding of employees or the resetting of passwords can be noted here as examples.

The further development of our services, the guarantee of a high service quality for the existing services while at the same time complying with the regulatory requirements and the provision of this range of services at a convincing price-performance ratio remain the central goals for PDM. This naturally goes hand-in-hand with providing a high-performance and stable production environment for the new XENTIS architecture (keyword: 'containerization') as well as ensuring a seamless transition to the new architecture for our customers.

The positive development of PDM is also easy to observe in terms of timing:

While the initial focus was mainly on providing the infrastructure for XENTIS in an ISAE-certified service in the private clouds, the focus increasingly shifted to application management and business services such as shadow accounting and specialist monitoring. In the course of this, existing business services such as the Static Data Service (WM and SIX) were also integrated into the PDM.

Subsequently, further software products of the Profidata Group will be offered via the PDM as a cloud service. These include apps in the public cloud (such as XDO or AssetView) as well as products from Profidata companies, such as itechx and abraxas. Here, too, the aim is to offer comprehensive services that go beyond the purely technical provision of Profidata products in order to allow our customers to participate in the linked know-how and synergy effects within Profidata. Examples include a price service currently under development, which we will offer together with abraxas on the basis of the RiskLine validation software and Arkus as a price modeller, or XENTIS as a more comprehensive overall solution with integrated xpass and RiskLine.
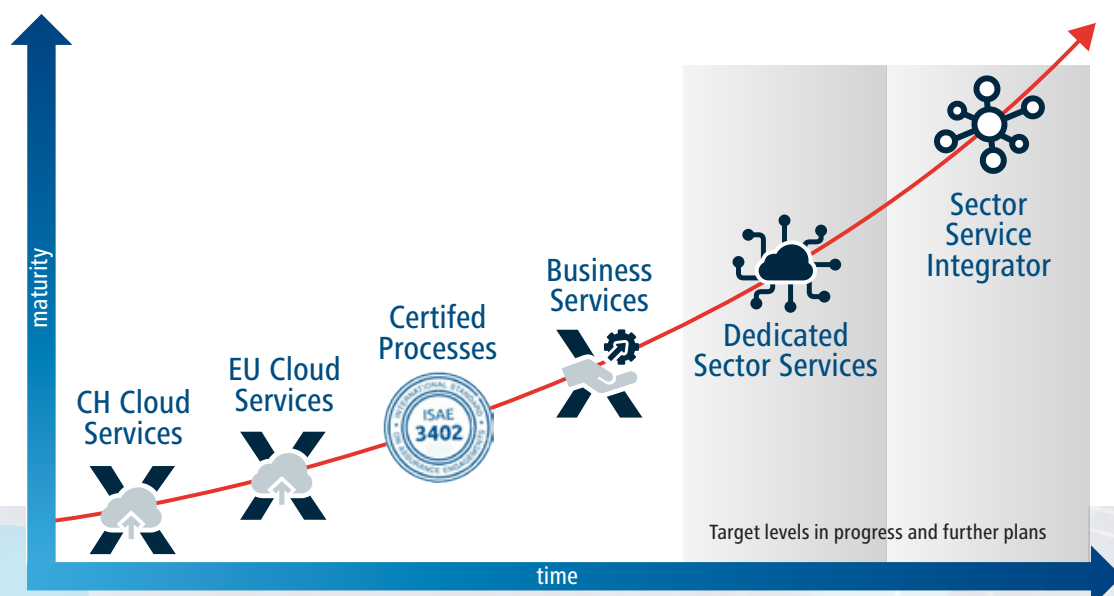
IFTaaS® – Investment Fund Taxation as a Service

Since the beginning of June, KPMG has been calculating investor-specific tax figures for Helaba Invest's special investment funds on a daily basis using the Profidata IFTaaS® system. The transaction-oriented mapping of tax accounting from regulatory data of the KVG in a specially parameterised XENTIS system, which Profidata operates and manages for KPMG, has proven to be an extremely successful decision after only a short time. Together with KPMG, Profidata is looking forward to new clients who want to use the tax treatment of their special investment funds as a complete solution in IFTaaS®.

Ralf Spöth

A START HAS BEEN MADE

Sophisticated – that was the most common label for the idea of offering the tax mapping of special investment funds as a service. With KPMG, Profidata has found a very special customer and at the same time a partner for the joint product idea that did not exist in this way in the customer portfolio. To deliver not XENTIS as a product, but accounting results that are then checked and processed by KPMG, e.g. into declarations of assessment, was radically new in this form. The fact that we also organise the input data ourselves, if possible, in such a way that the KVG as the end customer notices as little as possible, was as necessary and consistent as it was unusual for a software producer who usually receives data requests from the customer.

We knew that the idea would only work if the KVG, as a victim of the investment tax regulations, was completely relieved of its processes; we knew that piecemeal solutions would not be enough.

'IT WORKS' WAS NOT ENOUGH

Together with KPMG, Profidata has consistently built the IFTaaS® system along the economic benefit requirements of taking over the process from start to finish. Key success factors are

- consistent avoidance of features that are not required for tax fund accounting
- simple and stable parameterization in cooperation with KPMG,
- robust, high-performance and low-maintenance, quasi minimally invasive extraction modules on the KVG side,
- KVG's own fund and securities master data master data,
- tax classifications by KPMG as an integrated part of the daily process,
- a very adaptive transformation function for the KVG data,
- constant (daily!) improvements to the processes as part of the philosophy.

Much of what seems self-evident, clear and simple today is the result of lengthy analyses, improvements, discussions and repetitions of failed attempts. Leonardo da Vinci is credited with the phrase 'simplicity is the highest level of perfection'; if there was a guiding principle for the system, this is it.

Day in and day out, Profidata's operations team monitors the input interfaces, the reconciliation of inventories, the reconciliation of valuation ratios and the results of tax accounting. Every error is immediately analysed; even for minor differences and errors that are initially insignificant for tax accounting, solutions are sought so that, if possible, they no longer occur, stop and attract attention tomorrow. The colleagues have tidied up in the evening; all differences have been clarified; solutions have been commissioned or already found for any anomalies.

IF YOU ALWAYS WANT TO LOOK GOOD WHEN YOU RETHINK, YOU LEARN NOTHING

The team behind IFTaaS® is constantly looking for improvements that make life easier for all parties involved and ultimately maximise the benefits.

Of course, we have also had to learn. The changes that Helaba Invest had to make to its own processes as a pilot customer have significantly improved our understanding of the needs of a KVG. We had to learn that the technical and organisational support of such a transformation process is essential for its success; today we are much better equipped, especially with regards to the return of the tax data that the KVG wants to process further. We are indebted to Helaba Invest for their constructive and forward-looking cooperation; other KVGs will benefit from this. It was not only here that KPMG was able to bring its professionalism and experience to bear and provide perfect support for the transformation process.

WE ARE PROUD – OF OUR PARTNERS AND OURSELVES

In the meantime, the start and end of the monthly migrations are almost happenings, so well practised as they they. For these, too, it is true that we have continued to improve the processes, the coordination among the parties, the technical procedures and, in case of doubt, the mapping of special situations of individual funds by thoroughly processing the experiences of each individual migration, 'even though' the very first migration had already been successful.

We look forward to being able to inspire further customers for IFTaaS®!

Profidata Valuation Services

made by
· abraxas · Arkus Financial Services
· Profidata Managed Solutions

In the course of the continuous expansion of Profidata Group's services, a scalable service solution was sought for the valuation of both liquid and OTC assets in accordance with the Capital Investment, Accounting and Valuation Ordinance (KARBV). It was therefore obvious to integrate the experience and expertise that Profidata Managed Solutions (PDM), abraxas 'Entwicklungsgesellschaft GmbH' (abraxas) and Arkus Financial Services (Arkus) have built up in the modelling of assets in risk management in the further development of valuation services into the overall offering of the Profidata Group.

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Andreas Heid
*Martin Ewen*
Dr. Joachim Wack

Within the framework of this Profidata Group service concept, the marketable assets are obtained via the usual market data providers and the model rates via the Profidata valuation specialist Arkus and validated in the RiskLine-P software. This is done using various (e.g. statistical) methods, whereby the prices are quality-assured for market conformity and forwarded in an audit-proof manner to the target systems such as XENTIS and all other users (departments). Riskline-P ensures KARBV compliance and fulfils all regulatory requirements (MaRisk, KAGB, MIFID II, AIFMD).
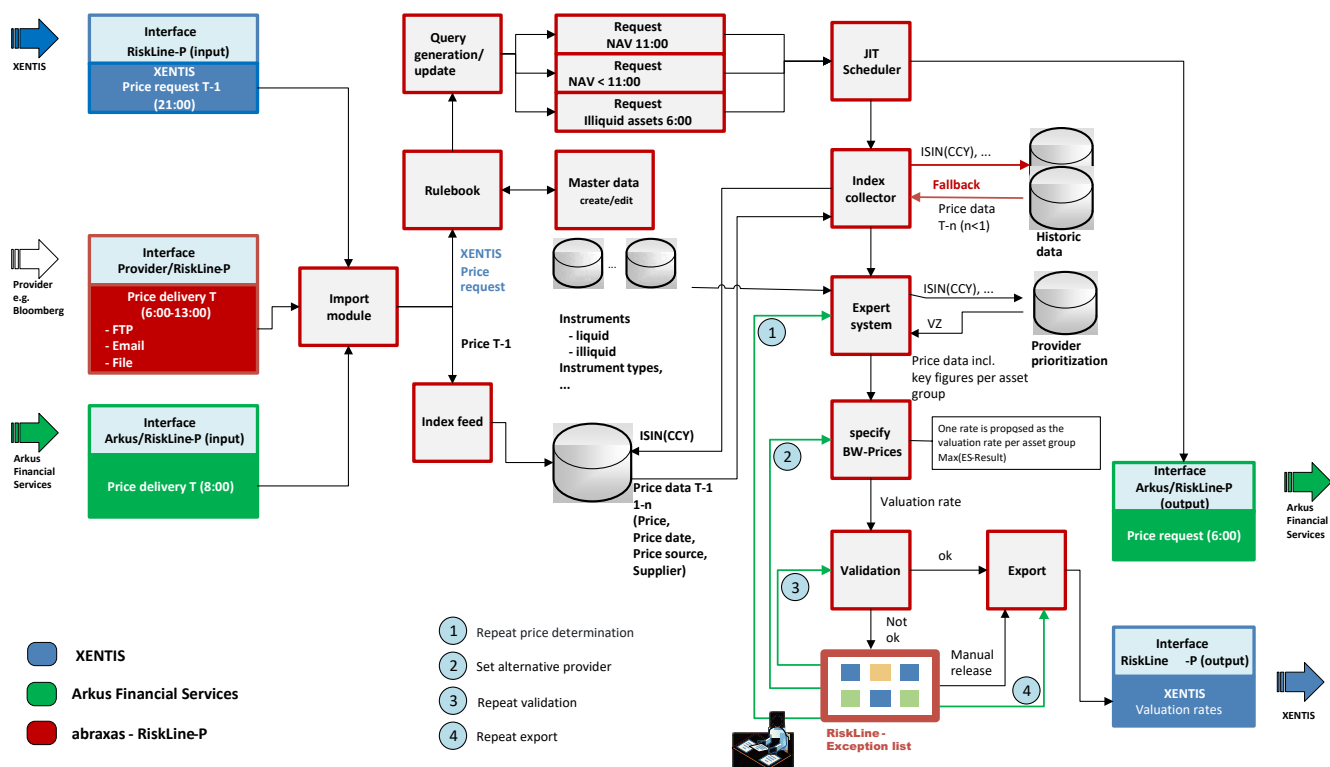
SERVICE CONCEPT

abraxas system

Arkus prices

PDM service
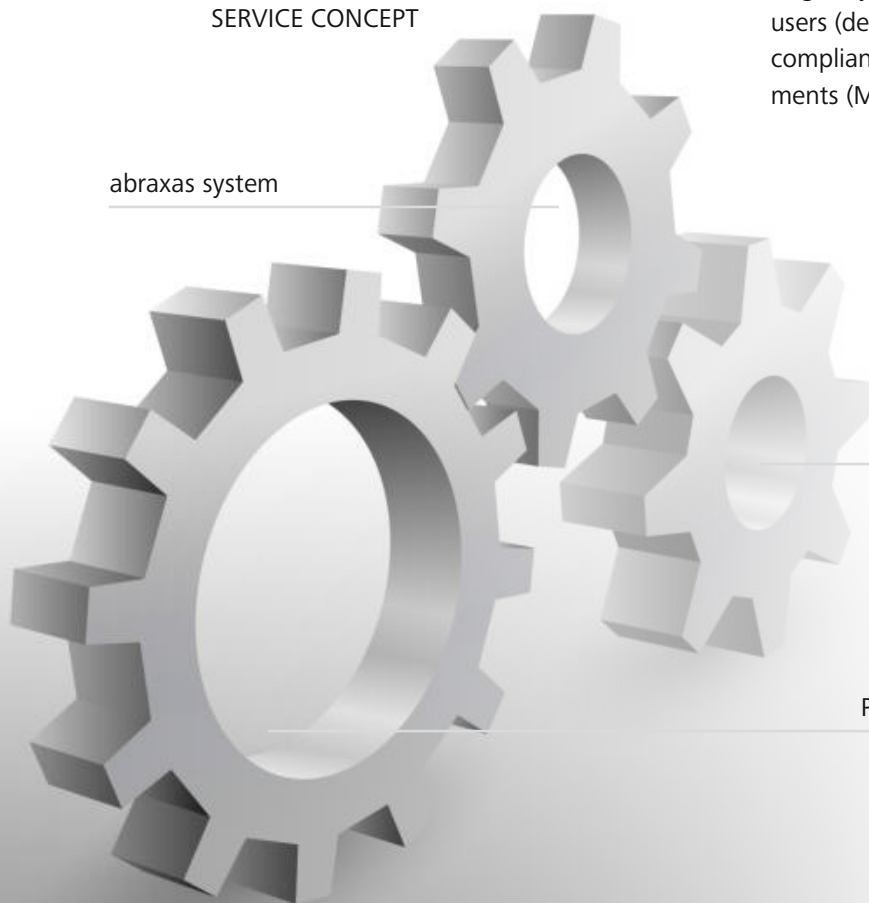
A price provided by Arkus goes through the same mechanisms as liquid prices of the usual market data providers.

In this service model, PDM takes over the technical operation of the Riskline software and data provider connectivity in the Profidata Cloud as well as the functional operating. The customer thus receives 'turnkey' prices for his valuation, which he only has to monitor within the framework of outsourcing controls.

In addition to the complete Valuation Price Service (i.e. a subscription to the entire central market data validation and supply), the client also has the option of obtaining individual price functions for specific OTCs via Arkus.

Alternatively, they can also be used as a 'second line of defence' in the ex-post validation of other price sources and in the quality assurance of the net asset value calculation. Arkus uses recognised price functions from standard sources for simple and complex assets (for further reading, see e.g. Hull, John C., 'Options, Futures and other Derivatives', 10th edition, Pearson Verlag, 2019).

The following list provides an overview of the asset types covered by OTC pricing:

Coverage OTC Pricing	
Fixed Income	• Fixed Rate Coupon Bond • Zero Coupon Bond • Commercial Paper • Promissory Note • Callable/Puttable Fixed Rate Bond • Callable/Puttable Zero-Coupon Bond • Convertible Bond • Floating Rate Bond
Options	• European • American • Bermuda • Exotics (Asian, Asian Option, Barrier Option, Double Barrier Option, Basket Option, Look-back Option or Spread Option) • Certificates (e.g. Bonus Certificates, Multi-Reverse Barrier Convertibles • Forex
Forwards	• Equity Forwards • Forward exchange transactions
Swaps	• Total Return Swap • Interest Rate Swap • Credit Default Swap • (Variance Swap)
Swaptions	• Interest Rate Swaption • Single Name Credit Default Swaption

It should be noted that obtaining the necessary market data for certain products can be quite cost intensive. This is a particular challenge for volatility-based products and credit derivatives. Our team at Arkus is therefore happy to work with our clients to develop efficient solutions. In principle, the market data required for the valuation can be provided either by our clients or alternatively by Arkus. For this purpose, Arkus cooperates with various well-known market data providers.

In the area of valuation, it is also important to ensure transparency and traceability of the results. The models and market data used are therefore disclosed as far as possible to allow external parties to check the valuations.

Please do not hesitate to contact us for further information.

Finger on the pulse of time with xpass from itechx

The central element of xpass is the automation of business processes around securities settlement. Regulatory topics are playing an increasingly important role and are of concern to our customers. With our finger on the pulse of the times, our current focus in the expansion of processes in xpass is therefore on sustainability and regulation.

Tina Hofmann
Stephan Wöffler

DIGITALISATION

Our IT solution xpass forms the reliable basis for straight through processing (STP) in the financial sector. Xpass can be perfectly adapted to the needs of the customer: According to the principle of customization, specific adjustments or individual adaptations and extensions can be made to the proven core system. As a result, xpass becomes a reliable and established solution that is precisely tailored to your requirements – and also stands for the highest degree of security, plannability and cost transparency.

Proven & individual
The reliable basis for the entire securities process

NUMEROUS INTERFACES &
ALMOST ALL DATA FORMATS

CUSTOMER-SPECIFIC
ADAPTATIONS

xpass

MAPPING OF THE ENTIRE
SECURITIES PROCESS

INTEGRATION OF VARIOUS
SYSTEMS & CONNECTIONS

SERVING SUSTAINABILITY WITH XPASS – ESG ASPECTS IN THE 'PROXY VOTING PROCESS' WITH XPASS

For more than ten years, sustainability has been at the forefront of the 'Proxy Voting Process'. Our clients specify their own 'Proxy Voting Policy', which is the basis for voting behaviour. In doing so, xpass works closely with renowned electronically linked 'proxy voting' service providers. The analysts of the proxy voting service providers make a recommendation taking into account the proxy voting policy deposited with them. In this way, the portfolio management has optimal support for its voting and does not lose sight of sustainability.

In the past, sustainability was defined more in terms of investment risk, but now ESG has brought issues such as climate protection and social responsibility into focus. ESG (Environmental, Social & Governance) stands for environment, social and good corporate govern-

ance. This is the evaluation of corporate social responsibility. Investors expect these aspects to be taken into account in the proxy voting process. The flexible configuration of agenda item categories allows ESG aspects to be taken into account in the proxy voting process.

The integrated reporting module of xpass provides customised evaluations that document the voting behaviour for general meetings held under ESG aspects. The information obtained in this way can be further used for reporting to investors and future investment decisions.

The 'Proxy Voting Process' allows the exercise of voting rights by:
• Voting instruction to the depositary of the company's shares
• Ordering admission tickets to attend the virtual or physical shareholders' meeting
• Proxy voting service provider

Proxy Voting (HL + Format)
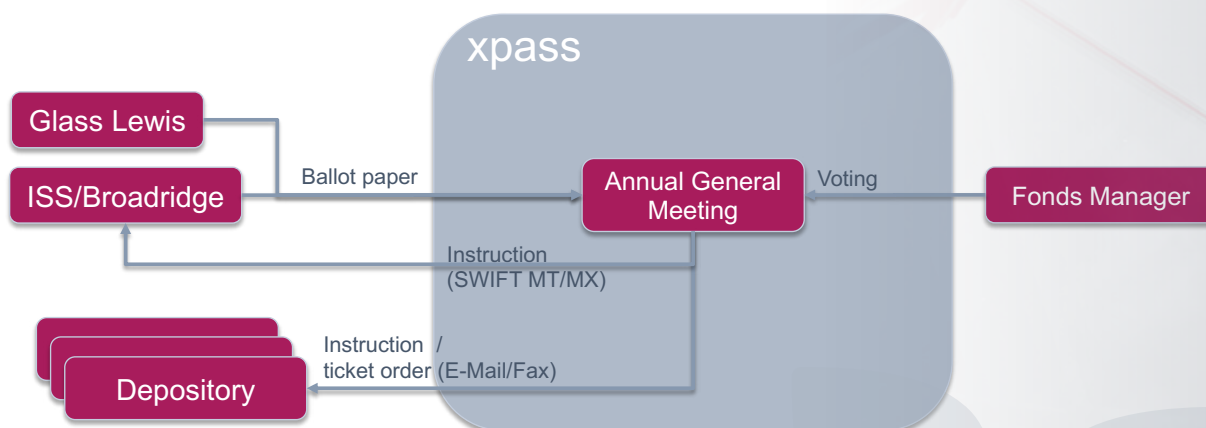
FROM THE REGULATORY SYSTEM INTO THE SYSTEM – CUSTODY ACCOUNT TRANSFERS WITH XPASS

xpass offers efficient support in the area of custody account transfers. For many years now, customers, including XENTIS customers such as the Evangelische Bank, have relied on the time and resource-saving processing of deposit and delivery orders using xpass.

The orders can be either automated by external delivery or created manually. Thanks to the large number of supported message and transmission formats (e.g. SWIFT, mail, fax or print route), it is possible to communicate with both large and smaller receiving and delivering banks as well as depositories at home and abroad.

To comply with the maximum time for processing orders, xpass supports the multi-stage running process that is fully integrated into the process. If reminder deadlines are reached, the defaulting partners are advised in writing automatically. The automation of custody account transfers with xpass supports compliance within the BaFin's time limit for executing a custody account transfer within three weeks. The investor receives full transparency on the current status of his submitted order and is informed immediately in case of delays or non-execution.

The filing of processed orders by xpass in the existing document management system and long-term archive is a matter of course in order to comply with the prescribed retention periods.

Our xpass software solution can also be excellently integrated into your system landscape as a cloud or on-premises installation and therefore allows you to concentrate on the essential work.

With 'EDDy_neu' on the home stretch?!

When [WM] Datenservice launched its big infrastructure project, it may not have been certain how much wind it would really caused among customers and partners. At the receiving end, about 300 customers and 20 service providers are actually affected.

Marcus Braeckeler
Martin Frolik

EDDy stands for 'Enhanced Data Delivery'. For many years, securities data has been made available via this in the classic VF1 data format. Optionally, data would now be available in XML-based VFX format in addition to VF1_neu. In addition to the technology, there are also many changes to the structure and content of the WM fields delivered. But let's be honest now,

EDDY_NEU – WASN'T THAT ALREADY LAST YEAR?

Yes, the original project plan was to go live in 2022. However, the plan was extended early into 2023. The changeover window, i.e. the start of production operations for EDDy_new, is now the Easter weekend, 07.04. - 10.04.2023.

Registration is required for the EDDy Information Centre. Those who are directly affected or involved in the project should register. In addition to the basic information, there are numerous documents on the professional and technical changeover.

There are also Q&A sessions, which are made available in writing afterwards. So much for the history, but it's more interesting:

WHAT IS CURRENTLY BEING WORKED ON – AT PROFIDATA AND AT OUR CUSTOMERS?

In order to approach the technical and concrete content changes in particular, we at PROFIDATA are subjecting the D20 document from [WM] Datenservice to an intensive content analysis. In particular, the impact on daily data processing is still in progress. In fact, about 1600 WM fields are affected by the EDDy_neu conversion. Do you really have to look at 1600 fields for each customer individually? No, we were able to determine through database analyses that ultimately about 300 fields are affected across all customers, i.e. they are of interest for further work.

To narrow down the critical mass further, we used the D20 document and the WM-DOK database to check which changes are ultimately relevant to the results. We have, as a suggested starting point for analysis with our clients, divided the outcome of the review into three categories.

1. changes/fields that are not relevant for XENTIS parameterisation
2. changes/fields that can be used but do not have to and
3. changes/fields that must be changed.

The first group includes, for example, changes where a previous text note is now mapped in an additional field. Since texts have not been structurally utilised so far, they are irrelevant for the conversion. The second group includes fields that are new or available in a different way, but the old fields are neither switched off nor frozen. This can be addressed at a later stage. The third group is the decisive one. It summarises those changes where the legacy field is eliminated and only the new structure exists in the future.

In workshops we look at, with each customer (based on their individual installation) which fields are concretely affected and in how many places and where exactly adjustments are necessary. - What happens now?

## IS THERE (FURTHER) ASSISTANCE FROM PROFIDATA?

Building on these initial workshops we approach concrete tasks together with our customers that arise for us from the [WM] data service project or the changeover through EDDy_neu.

The changes affect uses primarily in the parameterisation in the concrete mapping of the original WM data into the XENTIS structures, in business rules and in FINAL reports. The time of conversion is determined by the respective type of use. For example, changes to the business rules can already be made today in the production environment. The affected agendas can then be taken live on the Easter weekend, or the changeover date can be built into the agenda as a parameter, so that (almost) nothing more has to be done on the said weekend. In the case of FINAL reports, it must always be decided whether a new version is to apply or whether the use is to be adapted in a backwards-compatible manner.

Based on the different problems and many questions in the workshops, Profidata has compiled configuration examples for business types, decision trees and business rules. Two focal points of the analysis are, on the one hand, historisation - the keyword here is again backwards compatibility - and, on the other hand, the use of the possibility to make changes before the changeover weekend.

We will keep the examples up to date, depending on which questions or problems we continue to receive.
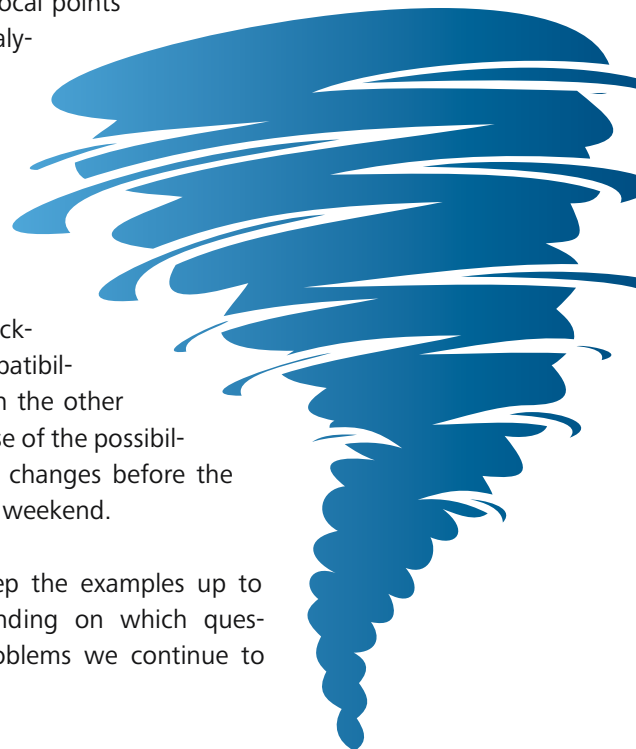
FURTHERMORE, THE TOPIC OF 'RATING' REQUIRES SPECIAL CONSIDERATION. WHY?

The various ratings of the providers (S&Ps, Fitch, Moodys) will be delivered in a fundamentally different way via [WM] data services in the future. Up to now, a rating - e.g. a long term and a short term rating - was delivered in different field lists. This will be merged in future AND [WM] Datenservice will deliver the ratings in text form. Further processability due to both changes? Difficult! As a service measure, we at Profidata have come up with the following offer: We will prepare the structure delivered by [WM] Datenservice in the interface in such a way that we 1) take the lists apart again and fill a separate list per rating in additional fields, so that it corresponds to the old structure again AND 2) the fields can also be implemented as code again. However, since we do not want to force this additional structure on our customers we offer this use as an option.

WHAT MUST BE DONE BY OUR CUSTOMERS?

Summarised again: What does Profidata do? In addition to the points mentioned above - we help our customers with detailed 'affectedness' analyses, prepare configuration examples, make them available for import and provide support in the use of the ratings delivered by [WM] - we will of course update the (standard) agendas delivered by us with regard to the business rules. This means that the previous WM fields will be replaced by the new ones to be used or their assignment to the attributes will be exchanged. In addition, we will adapt the FINAL standard modules. Here the basic analysis has already been done, individual fields are still being analysed.

Ultimately, our customers will also have to carry out a technical analysis of the specific fields affected. Why? In the respective houses - no matter whether investment company, depository or asset manager - the use of the fields is interdisciplinary and therefore coordinated 'in-house'. How exactly the use of a new field or a new structure is to be adapted or changed in comparison to the old field may have to be coordinated anew between the specialist departments. There may also be opportunities to cut back on old habits. In our analyses of where a field is used, sometimes forgotten uses turn up or old test structures where ultimately our customers can decide whether something like that can be deleted. In addition, there could be applications that do not run via XENTIS and where the WM fields are used elsewhere.

In essence, it is still your 'own' or customer-specific FINAL reports, as well as, above all, the use of business rules in the customer-specific application. If our customers want to call on support services here, we are also available beyond the scheduled workshops.

With regard to the rating, there is again a special feature. As described above, Profidata takes over the service of processing the ratings in a similar way as usual and in a way that can be further processed. What is missing, however, is the code conversion into numerical values in order to consolidate the various ratings for further purposes. Up until now, this code conversion has been provided by [WM] Datenservice, but in future it will have to be done by the customer. For the definition of the conversion, Profidata can provide support if desired, i.e. deliver the basic code translation via interface.

WHAT STILL NEEDS TO BE DONE AND CLARIFIED IN DETAIL?

The initial situation is different for every client.

- Is a release change still needed?
- What is the concrete result of our analysis described above with regard to the number and type of fields affected?
- Have you already switched to the subscription procedure?
- Are (own) FINAL reports in use?
- Are there perhaps 'only' business rules that need to be converted?

In addition to the topics described regarding FINAL and Business Rules, the change from issuer to customer number is of particular importance. As of the beginning of October, we are still lacking details from [WM] data service. Finally, we would like to provide a 'script' to give us all a compass - especially for the changeover weekend itself.

An infrastructure project as complex as the one our partner is undertaking means that the Profidata timetable has been, and will continue to be, affected by shifts and changes on the part of [WM] data service.

Depending on some final content-related and technical clarifications with [WM] Datenservice, we at Profidata want to have carried out the necessary adjustments on our side in the fourth quarter of 2022, so that the first quarter in 2023 is available for rework, bug fixes and any support orders from our customers.

Addendum of the editors

With the EDDy_neu information of 02.02.2023 we informed you about the postponement of the go-live date of our project EDDy_neu. In the context of the reorganization of the project, the EIC and its contents will also be revised step by step. We point out that with postponement of the go-live date the mentioned dates and schedules in all information, documents and other documents in the EIC are irrelevant and obsolete. The content-related information of the documents will remain valid until further notice.

Document management system in XENTIS

The time has come! With the decision in favour of the Agorum software solution, Profidata customers will soon have an integrated document management system (DMS) in XENTIS. DMS in XENTIS will soon be available to Profidata customers.

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Zoran Sucic
Daniel Hümbeli

At the Virtual Profidata Group Day 2021, we had the pleasure of informing you about the plan to integrate a DMS into XENTIS. This plan envisaged that the connection would be made via third-party software. After a detailed examination of possible candidates and their solutions for important criteria in the areas of technology, functionality and cost-effectiveness, we are pleased to inform you that we will realise the implementation of the DMS on the basis of the software solution from Agorum, a company based in Germany.

During the technical connection, however, we abstract the accesses from XENTIS to the DMS so that we create the possibility of integrating other document management systems - possibly already in operation at your company. The operating elements in the XENTIS application should thus be able to be used unchanged, although access to an alternative system takes place in the background. We would be happy to check for you whether integration with your DMS is technically possible.

HOW DOES WORKING WITH THE DMS IN XENTIS CHANGE?

If you decide to use this solution, some important features will be available to you in the future. In every graphical user interface of a XENTIS object type that we consider useful, such as transaction entry or master data maintenance of a fund, is to be expanded to include the document entry and management function. Figure 1 illustrates this new functionality in the form of a model that is not

yet definitive. On this new interface you add documents of your choice, view current stored documents and edit the respective metadata (i.e. data such as the document name or the date of entry). You can also have documents removed from your display. For the purpose of revision security, these are not physically deleted.

In addition, the new DMS allows you to link individual documents to the respective XENTIS objects very easily via drag & drop and also to provide relevant metadata. For example, we want to integrate a feature for you that allows you to easily store a document as proof of the corresponding business transaction in the familiar transaction entry screen without any major detours. In this way, we save you unnecessary work steps and the use of additional software and enable you to concentrate on your main activity.

However, our aim is not only to ensure the audit-proof, manual storage of documents, but also to feed documents generated from automatic processes into the DMS, for example reports from the processing cycle, which are automatically stored in the DMS in the background after creation and linked to the XENTIS object. These reports can then be found directly in the respective fund or portfolio.

TECHNICAL IMPLEMENTATION

For you, as the end user of our expert system, you should continue to work mainly with XENTIS and not have to familiarise yourself with another system. Our technical solution will take care of this system communication for you. Figure 2 shows our implementation plan. From a technical point of view, both the XENTIS client and the server communicate with Agorum's DMS server via an abstracted interface. Your responsible administrator has the possibility to set up certain structures and authorisations directly on the Agorum web interface in order to make your work process as efficient as possible. Our design will also ensure that even in the event of changes to subject identifiers, such as an ISIN, the document is always correctly assigned to the element.

Figure 1 - New element on the graphical interface (design is not final)

DATA PROTECTION

The issue of data protection is also one of our main concerns when implementing our solution with Agorum's DMS. For our cloud customers, for example, we will leave the documents geographically in our infrastructure and therefore will not outsource any data to a third party. For our on-premises customers, the documents will remain unchanged at your location.

We hope that the newly licensable DMS in XENTIS will meet with your interest and our team will be happy to provide you with further information.
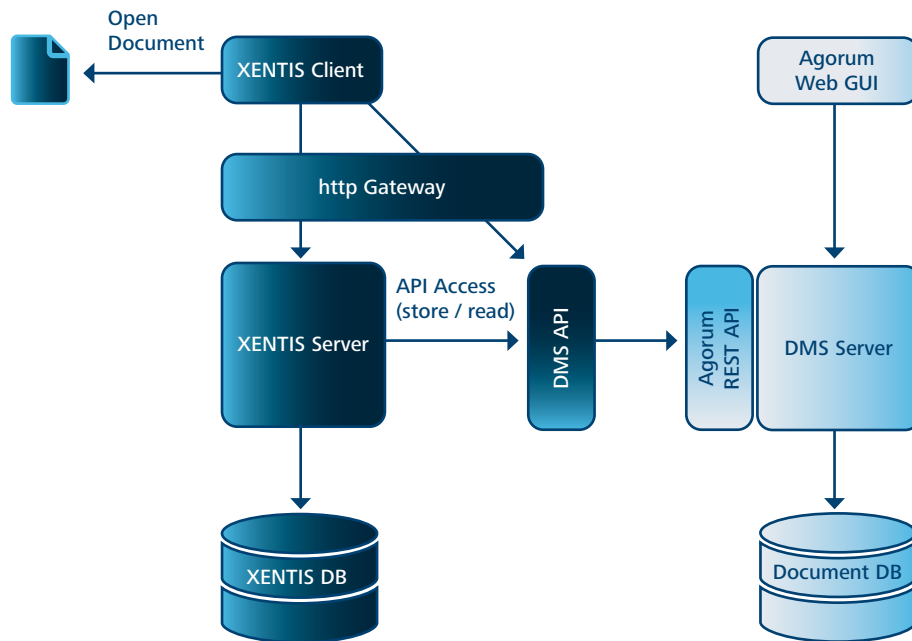

Figure 2 – Technical implementation

Alternative Investments in XENTIS

As previously announced, Profidata has launched a project to map the two asset classes 'Private Equity' and 'Private Debt' more efficiently in XENTIS. The aim of the first phase of the project was to create the basis so that the two asset classes can be set up more simply and clearly in XENTIS (master data and holdings), so that specific process steps (transactions and valuations) can be carried out more efficiently and automatically on this basis.

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Stefan Siegrist
Andreas Funk

In the following, we would like to present the enhancements that have already been implemented within the scope of release 5.9.0:

1. In order to define the basic structure for private equity and private debt instruments, a separate instrument type was set up for the two asset classes. In this way, those master data fields can be specifically defined which are required for the description of these asset classes. In addition, these new instrument types can be used to manage sub-items that are related to the main item (commitment items for private equity investments, contracts for private

debt investments). On-balance-sheet components (e.g. commitment interest for the open commitment) can also be configured on these sub-items.

2. The investments can be displayed in the position mask simultaneously and together with the associated sub-items, e.g. the open and called commitment. This leads to a better overall view and easier commitment management.

3. In order to take account of the fact that fund-specific instrument master data is possible for alternative investments, a new mask (GUI) was developed, via which position-specific overrides are visible for a selected instrument and can be easily maintained. This function is also available for all other asset classes.

4. In the environment of private equity or private debt investments, the general partner (GP) often does not report a 'traditional' price for the investment, which applies to all funds involved in the same investment. To take this into account we now make it

possible to record the values reported by the BP directly on the portfolio and, based on this, to define price rules that are used for the valuation.

5. The transaction recording for private equity or private debt investments can become confusing due to the large number of possible components and positions involved. In order to increase the comprehensibility of such transactions various graphical enhancements have been made in the transaction type parameterisation (GA) and transaction entry:
a. GA parameterisation: groupings and formatting of settlement components with headings to improve the display in the transaction entry screen
b. Transaction entry: labelling of positions at GA position level
c. Transaction capture: Hiding of unnecessary positions

6. Value adjustments due to cash flow entries (capital calls, repayments) had to be adjusted manually in the past. Likewise, in the case of retroactive reports of official

valuation values of investments, the influence of capital flows posted in the meantime on the value had to be adjusted manually. The adjustment of these changes in value is now recognised and carried out automatically.

Further enhancements in the area of alternative investments are already being implemented for Release 6.0.0. Among other things, the following key figures will be available in XENTIS:

- DPI (Distributions to paid in Capital)
- RVPI (Residual Value to paid in capital)
- TVPI (Total value to paid in capital)
- PIC (Paid in Capital)
- IRR YtD and IRR since inception

In addition, a new GUI will be available as of release 6.0.0, which will provide an overview of funds with private equity and private debt investments (incl. mapping of commitments and the key figures described above). Furthermore, the authorisation of instruments will be introduced and the linking of documents via an external document management system to XENTIS objects will be made possible.

In further subsequent releases, enhancements are planned in the area of fees (fee calculation based on off-balance sheet commitment postings) and interest (mapping of redemption events). The FINAL team will also develop specific reporting templates for private equity that meet the requirements of the Investor Reporting Guidelines according to Invest Europe.

We hope that we have aroused your curiosity about our enhancements in the area of alternative investments. Our team looks forward to presenting our solution for this asset class to you in detail.

Management of performance values in XENTIS

The functions for managing investment performance values implemented with Release 5.9 serve as convenient handling and management of the performance data and optimise the runtime behaviour of the performance calculation.

Stefan Zimmermann

The XENTIS module Investment Performance contains new features to simplify the administration of performance values. We recommend saving the values of the performance calculation in the same way as the valuation in the daily settlement cycle via the job 'Save performance key figures'. If, for procedural reasons, the storage is to take place outside the settlement cycle, this is also possible with the job 'Save performance key figures'.

The saved performance values are available throughout XENTIS. The use of the stored values offers various advantages over ad hoc calculation.

Stable data
Since the data is only calculated once and then stored, the values remain stable (even with retroactive changes).

Better runtime behaviour
The runtime for calculating performance from stored values is significantly faster than recalculating ad hoc over and over again.

Identical values
Since the values are read only and not recalculated in different variants for different purposes (back office, front office, reports), it is ensured that the values are identical in all application parts.

The calculation parameters for the performance calculation are now configured in performance profiles. The performance profile defines the following aspects:

Accounting standard
    This controls, among other things, how the valuation (e.g. market value, lowest value) is made

Cash flow timing
    This takes into account external flows at the beginning or end of the day

Exclusion list
    Defines which performance components are not to be taken into account for the calculation of the performance (e.g. no fees)

The maximum number of performance profiles that can be assigned to an asset holder at the same time is limited. The limitation also serves to limit the system load and the amount of data. With each additional parallel profile, the number of performance values to be calculated and stored basically doubles.

A 'trace mask' is available for tracing the stored values. This allows you to view the stored values for each asset holder and performance profile over a certain period. A detailed Excel report also makes it possible to track the performance calculation down to the position level.

Due to retroactive adjustments, the performance values for asset holders can change retrospectively. The stored values do not reflect this. In order to obtain a comparison of the values as they would currently be calculated against the stored values, a simulation environment is available.

The simulation environment allows you to start the performance calculation for an asset holder and a certain period from today's point of view and to store it as a simulation. The simulation can be compared with the stored values. Deviations between the simulation and the stored values are shown on a daily basis. After analysing the deviations, the user can accept the simulated values as stored values or delete them.

e-AMIS | WEALTH MANAGEMENT SYSTEM

Review and monitoring of the customer assessment against the customer profile

The result of the check is persistently stored in the database and a report is generated

Suitability check and reporting in e-AMIS

The various MiFID II regulations require the investment advisor or portfolio manager to comply with extensive guidelines when selecting the 'suitable' investment instruments for the respective client. Within e-AMIS, the individual solution 'Suitability Reporting' has therefore been realised due to the individual requirements and circumstances of the client to be taken into account.

Marcel Schwertfeger

Outside the central asset management department, the client advisor in the respective branch elicits the relevant criteria of the respective client:

- Client category
- Investment objectives
- Investment horizon
- Knowledge and experience
- Investment profile
- Risk tolerance or rating
- Financial loss tolerance
- Sustainability preference

The information obtained is then stored in the so-called 'advisor' risk profile by means of a standardised questionnaire from the bank via interfaces in e-AMIS.

Based on the determined client-specific criteria, such as client category, investment objectives,

etc., the client's profile is now registered in the central asset management system. The selected investments generally correspond to a product of the banking institution and are reflected in the risk profile of the client's 'investment'. Periodically, it is checked whether the client's requirements are in conformity with the selected investments.

In addition to the check and any necessary corrections in the investment, the 'test report' is made available to the customer on a quarterly basis.

The solution presented here was developed as an individual solution in close co-operation with the client's bank. The solution is largely based on the e-AMIS standard, which has been expanded and parameterised according to customer requirements. In summer 2022, the additional option of checking sustainability preferences was implemented.

Suitability report

The investment is made in accordance with the agreed investment policy Balanced.

The suitability assessment conducted on the basis of the information that you most recently provided (investor profile from 17.01.2023) indicates that the agreed investment policy is no longer suitable for you (see the table for details). Please contact your advisor.

Criteria	Investment Strategy	Client/investor profile	Result
Customer category	Private client	Private client	✔
Investment objectives	Pension and retirement planning		✔
	Wealth accumulation	Wealth accumulation	
	Wealth accumulation for purchases	Overall asset diversification	
	Overall asset diversification		
	Asset management		
Investment horizon	5 years +	10 years +	✔
Investment profile	Classification 3	Classification 4	✔
Risk tolerance	Classification 3	Classification 4	✔
	At a risk tolerance of up to 25%, we recommend a portfolio composition that is likely to involve moderate price and value fluctuations.		
Financial loss capacity	Classification 5	Classification 5	✔
	With liquid assets of EUR 50,000 or more or a regular disposable monthly income of EUR 1,200 or more, we recommend a portfolio composition that is likely to also involve high price and value fluctuations.		
Sustainability preferences	No	Yes	✖
Knowledge and experience	Bonds	Bonds	✔
	Equities	Equities	✔
	Funds	Funds	✔

XENTIS – What's New

In addition to strategic development topics such as alternative investments, management of stored performance values or integration of a document management system, we are also implementing extensive enhancements in core areas of XENTIS such as accounting, investment compliance or data supply. In addition, the ecosystem around XENTIS continues to grow as the solutions of our subsidiaries within the Profidata Group are connected to XENTIS.

An overview of the availability of this integration, a list of all notable enhancements in the areas of front office, middle office and back office as well as in the area of security and technology, can be found in this article. For more detailed descriptions of the extensions already implemented, please refer to the What's New documents available separately.

Daniel Hümbeli

OVERVIEW OF RELEASES

The following list shows the releases that are currently available and those that will be available in the near future:

- *5.7.2:* Most of our customers are currently using release 5.7.2.
- *5.8.0*: As this XENTIS version has been successfully used by a pilot customer since April 2022, it is currently the most since this XENTIS version has been in productive use at the pilot customer since April 2022, the focus for upgrades is currently on this release.
- *5.8.5:* This is a special release that is only available to new customers who require certain software enhancements.
- *5.9.0*: Development and testing is complete. This release is ready for piloting.
- *6.0.0:* Development will continue until the end of January. From May 2023, this release should be piloted and available to all our customers from the end of 2023.

Details on availability and maintenance duration can be found in our official release lifecycle document. This is available to our customers in the download area or in the Helix portal.

5.8   5.8.5   5.9   6.0

HIGHLIGHTS OF AVAILABLE AND FUTURE RELEASES

	Functional	Technical
5.8.0	• Data authorizations on field types, prices and key figures • Enhancements in FO and IC	• Delivery in containers for the first time • Safety improvements
5.8.5	• Import and use of Position ratings • Multiple primary data providers	• Same technical basis as 5.8.0 • Public REST API
5.9.0	• Extensions for Alternative Investments • Management of performance values for funds/portfolios • Better support for crypto assets • Various specialized topics such as IC, order, matching, accounting	• Same technical basis as 5.8.0 • Improvements in the area of security
6.0.0	• Second expansion step for alternative investments • Price supply for Instruments without holdings (e.g. benchmarks) • Integration Document Management System • Management of performance values for benchmarks • New workflow module for bank account reconciliation	• Further expansion regarding containers • Log aggregation in ElasticSearch • Integration of authentication service • Various improvements regarding security

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FRONT   MIDDLE   BACK   BASE

CUSTOMIZED CONFIGURATION

MANAGED SOLUTIONS

COMPATIBILITY OF XENTIS WITH OTHER PROFIDATA GROUP SOLUTIONS

	Solution for	Integration with XENTIS	Amount of XENTIS customers
DirectOrder	Order entry and order book for investors	since release 5.5.3	4
AssetView	Investor portal	via XDWH	1
RiskRadar	Risk calculation	via FINAL and SN	4 (+1)
RiskLine	Course supply and validation	since release 5.5.1	2 (+1)
FundLine	Processing of portfolio commissions	planned	(1)
xpass	Interfaces and routing	via FINAL and SN	2

WHAT'S NEW RELEASES 5.8 AND 5.9 AND OUTLOOK 6.0

In the following sections we list the most important enhancements of the releases 5.8.0 and 5.9.0. Release 6.0.0 is still under development, but we would like to give you a preview of the most important new features to be expected.

Innovations in the Front Office area
Release 5.8.0:
• Business Rules Attributes: Attributes calculated via business rules can now also be used in queries and analyses.

• New 'Information' tab: In queries and analyses, an information tab is available that lists the defined settings. In analyses, the portfolios and target structures used are also displayed.
• Asset allocation, benchmark and comparative assets can now be used in queries and analyses.

Release 5.9.0:
• Multiple portfolios as different tabs: now the same analysis can be opened for multiple portfolios in parallel and displayed in different tabs.

5.8

5.8.5

5.9

6.0

- The Title Swap action has been optimized: order allocation is now executed only once for the consolidated position and the total amount.
- A default query can now be defined in Front Office, which will be used automatically the first time it is opened.
- The cash flow projection has been improved: this development of the cash positions in the respective currencies over time is now displayed as a running total including the start values. In addition, both legs of forward exchange transactions are now taken into account and orders and transactions with a future value date are also included in the projection.

New features in the Investment Compliance module

Release 5.8.x contains a number of enhancements in the Investment Compliance module that are relevant for both pre-trade checks (middle office) and post-trade checks (back office), which is why we summarize them in a separate section.

Release 5.8.0:
- Investment compliance is enabled to identify and flag compliance violations as possible active violations.
- In a route of the IC workflow control, the specific criteria 'Days since status change', 'Transactions since last official assessment' and 'Active compliance violation' can now be used.
- Suppression can now be specified as a 'property' when a rule is set up so that an entry is made for 'Suppress limit violation' the first time a violation occurs according to the stored information.
- Improvement of the test mode: Rules in test mode can now also be assigned to

a fund in this status.
- Further parallelization of the compliance check agendas to optimize speed.

Release 5.8.5:
- Flexible fields of the type 'IC Workflow' can now be accessed in the IC Workflow. These are displayed in a new tab 'Additional data' and can be edited directly in the mask. These Flexible Fields can also be output via FINAL Reports.
- Business Rule properties such as the 'Limit Type' can now be customized at the rule assignment level. Previously, customization was only possible at the rule level.
- Business rule parameters defined at the level of a rule can now also be overwritten at the level of a rule grouping. Previously, overwriting was only possible at fund level.

In Release 5.9.0, the user-friendliness in IC replay has been optimized. The development of further improvements in the BR Designer and the Business Rules are planned for Release 6.0.0.

Innovations in the Middle Office
Release 5.8.0:
- Faster processing of FIX confirmation messages on the one hand by splitting them into confirmation and execution messages and on the other hand by parallel processing.
- Matching of reversed open items is now possible by automatically merging a reversal transaction with the corresponding reversed transaction.
- Business connection criteria have been added to the decision tree for determining transaction costs.

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FRONT MIDDLE BACK BASE

CUSTOMIZED CONFIGURATION

MANAGED SOLUTIONS

Release 5.9.0:
- By means of the 'stored performance values', the administration of calculated performance values is facilitated and the software-side use of these values is standardized. A separate article is dedicated to this topic in this 'News'.
- Business rules can now be used in matching criteria if the matching parameter is based on a flexible field.
- A new job allows you to automatically remove old or no longer needed external messages and open items.

In Release 6.0.0, benchmarks are also linked to the concept of 'stored performance values'.

Innovations in the Back Office
Release 5.8.0:
- Single Request Multi Provider: Previously, missing instruments and companies in XENTIS could only be automatically loaded and periodically updated from a single external data provider. With the Multi Provider module, master data from multiple primary providers can now be managed and periodically updated.
- Data permissions: The object types field type, key figure and rate can now also be authorized, which makes it possible to release certain flexible fields or key figures only for specific user groups. This selective access can also be implemented for instrument and currency rates.
- More detailed display of valuation movements in the balance sheet income state-

ment: With the new parameter 'Show all entries (valuation single)' it is now possible to trace the valuation entries for interim valuations. If the breakdown per item is selected, a detailed view per individual item is possible.
- Define default bank account by portfolio and currency: Previously, it was only possible to designate a single bank account as the default bank account (usually in the main fund currency). Now the user can configure for each currency within a portfolio which bank account should be used as default.
- The field 'deviating position currency' in the instrument master data has been migrated to a historized flexible field that can be used in a FIM base data module.
- As of Release 5.8.0, XENTIS has a new job type that can be used to deactivate maturing securities based on their maturity date.
- Saved Valuation (as of Release 5.8.5): The idea for this functionality came from the use case of an existing accounting system outside of XENTIS, and the desire to be able to use these external accounting values in XENTIS. Now, valuations can be stored at the item level via an interface and subsequently used in XENTIS modules such as investment compliance. There is no need for time-consuming parameterization to replicate the values that already exist externally within XENTIS.

Release 5.9.0
- Various enhancements improve the handling

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FRONT MIDDLE BACK BASE

CUSTOMIZED CONFIGURATION

MANAGED SOLUTIONS

of alternative investments (private equity, private debt). Here we refer to the separate article in this 'News'.

- In XENTIS, it is now possible to maintain position-specific prices. This can be used, for example, for forward rates of FX forwards that should be different per position.

- To better support crypto assets, the decimal places of various fields (so also of certain transaction components) have been extended from 6 to 10 digits. In addition, the user can now set the number of decimal places in the 'Opening Transactions' tab of the 'Closing Detail' screen.

- Presetting of fields: In manual transaction entry, it is now possible to preassign the 'Broker' field using a decision tree. In both transaction and order entry, the securities account can now be preselected by means of a decision tree, depending on the instrument type.

- In the cancellation dialog for transactions, there is now the option to cancel only the selected transaction, even if it is part of a block order. In this case, a rectificate is always created. Previously, all transactions of the block order had to be canceled in this case.

- For field types, code tables and code table grouping, metadata can now be entered via a separate tab, for example to document changes made for revision purposes. In addition, the 'References' tab allows the user to check where the selected/opened element is used in FINAL modules, business rules and decision trees.

- New mask 'Historical Position View': this

allows the display of historical positions across funds based on the saved valuation.

Release 6.0.0

- The alternative investments area will be further expanded in a second phase (calculation of specific key figures, new mask for the overall presentation of private equity and private debt funds).

- The data authorization will also be extended to instruments, so that e.g. private equity investments that are mapped by means of instruments can be authorized.

- It is now also possible to obtain prices for instruments without a portfolio (e.g. for benchmarks). This eliminates the need to maintain a dummy portfolio.

- New module: Bank account reconciliation is improved and extended by means of workflow support.

- An important project is the connection of a document management system to XENTIS so that documents can be linked directly from the application to XENTIS objects. For more information on this topic, please refer to the separate article in this customer magazine.

Innovations in the area of technology and security

Release 5.8.0:

- In Release 5.8.0, XENTIS is delivered in containers for the first time. This offers the advantage of decoupling the applications and abstraction from the underlying operating system. The application components can thus be better isolated, making operation more secure.

- Security for sending mail from XENTIS has been improved: the connection to the mail server can now be encrypted and protected with authentication.
- The XENTIS client application is now delivered signed, so that there are no more problems with Windows computers with stricter security guidelines.
- First expansion step of the connection of FINAL to XDWH: the FINAL language was connected to the data in the XENTIS data warehouse (XDWH), so that this data can be used in reports as an alternative to the data directly from XENTIS. The switch between XENTIS data and XDWH is transparent so that a FINAL script does not need to be changed.

Release 5.8.5:
- In this release, we have developed a Public REST API for the first time, which enables new integration scenarios via an application programming interface.

Release 5.9.0:
- Release 5.9.0 does not contain any significant technical enhancements. This release builds on the same technical base as 5.8.0.

Release 6.0.0:
- The second expansion step with regard to container technology takes place in release 6.0.0. Each server component of XENTIS is now located in a separate container.

- The configuration of the server components (previously in environment variables) is migrated to the central configuration service. We now use spring-config for this purpose.
- The logging on the server side is centrally aggregated in ElasticSearch. All logs can now be accessed via Kibana GUI (web-based).
- Introduction of the authentication service based on KeyCloak: This secures internal interfaces between components using a token infrastructure. In addition, the authentication service based on a modern standard (OAuth2.0) enables the integration of in customer-specific and extended authentication procedures (e.g. 2-factor authentication).
- Release 6.0.0 includes further security improvements such as encrypted communication during messaging or no more passwords in configuration files.

Reporting News

Since the last issue of the customer magazine, there have again been numerous innovations in the area of reporting. In addition to changes in the standard reports, the regulatory innovations in the areas of ESG, EMIRPRIIP-KID and GIPS reporting outlined below are particularly worth mentioning.

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René Thalparpan

ESG-REPORTING – EUROPEAN ESG TEMPLATE (EET)

In addition to the standardized templates for PRIIP, MIFID II and Solvency 2 that are already in productive use, FinDatEx has now also published a template for ESG data in March 2022 (EET Version 1.0).

Profidata has extended its set of reports for template creation accordingly:

- European MiFID Template – Version 4.0
  XENTIS-Modul PD_EMT_TEMPLATE

- European PRIIPs Template – Version 2 and European Comfort PRIIPs Template – CEPT Version 2.0 Implementation in connection with the Openfunds initiative XENTIS-Modul PD_OPENFUNDS
- Solvency II Tripartite Template - Version 6 XENTIS module PD_SOLVENCY_II_BVI_TEMPLATE
- (NEW) European ESG Template - EET Version 1.0
  XENTIS module PD_EET_TEMPLATE

The creation of the EE template requires that the relevant ESG data be managed in XENTIS. The basis is a parameterization layer with support for business rules in order to be able to flexibly integrate the various data suppliers.

ESG REPORTING – ANNEX 4 OF THE DELVO TO THE DISCLOSURE REGULATION (SFDR)

Annex 4 of the DelVO provides detailed specifications as to which information on which financial products and in which form must be published on a regular basis.

Publication within the framework of the accountability reports/annual reports is an obvious step. The implementation of a new FINAL module is currently being planned.

Initial consultations have taken place with various contacts. A working group to find an implementation consensus will start this fall. The corresponding preparations are underway.

EMIR 3.0 (REFIT) – NEW TRADE REPOSITORY NOTIFICATIONS

The European Securities and Markets Authority (ESMA) has launched a consultation on draft regulatory and implementing technical standards (RTS and ITS) under Regulation (EU) 2019/834 (EMIR 3.0), covering reporting to trade repositories (TRs), data reconciliation and validation procedures, data access by competent authorities, and registration of TRs.

The XENTIS module for creating the report for the trade repositories (PD_TRX_REGISTER_II) currently creates registry-specific formats for DTCC and Regis-TR. According to the amended version of EMIR 3.0, the aim is to standardize the reporting to the trade repositories and to switch from a register-specific to a standardized XML format.

Furthermore, an extension of the reporting scope by 74 to a new total of 203 fields is to be expected. The new EMIR rules will come into force 18 months after publication of the regulatory standard in the EU Official Journal. We currently expect these rules to apply from Q2 2024.

Initial consultations have taken place with various contacts. A working group to find an implementation consensus is planned for Q1/Q2 2023. The corresponding preparations will start in February 2023.

PRIIP-KID - ADJUSTMENTS TO THE NEW TECHNICAL REGULATORY STANDARDS

With the publication of Delegated Regulation 2021/2268 in fall 2021, some provisions regarding the layout and content of the PRIIP-KID will change. These technical regulatory standards are scheduled to come into force on Jan. 1, 2023.

Our XENTIS module for creating the PRIIP-KID (PR_PRIIP_KID) is currently being adapted to the new regulations.

With the adjustments, the scope and flexibility of the text blocks will increase, among other things, and some text blocks will move.

Changes in the determination of values regarding costs and performance scenarios must be taken into account not only in the report, but also by the supplying risk systems.

A possible data supplier is RiskRadar from Arkus, which delivers the risk values and scenarios already according to the latest specifications.

COMPOSITE REPORTING, GIPS REPORTING (GLOBAL INVESTMENT PERFORMANCE STANDARDS)

With the option of managing composites in XENTIS, Profidata also offers a corresponding report folder. The report folder implemented with FINAL and BIRT serves as proof of GIPS compliance and at the same time fulfills the corporate identity requirements of our customers.

The following topics are covered and can be extended at any time:
- Cover sheet
- Composites overview (properties, inclusion criteria, allocation)
- Performance per year / risk ratios (Tracking Error, Information Ratio, volatility, vola benchmark)
- Graphical overview performance, performance 3 years, annualized (incl. riskratios)
- General composite information (compostion, assets, share of total AuM, total AuM, proportion of 'All in Fee' mandates, share of fee-free mandates, dispersion).
- Additional information Composite Calcultion
- Disclosures / important information

MODUL FOR THE CREATION OF FACTSHEETS IN PDF

The comprehensive reporting set for creating factsheets is constantly being expanded in terms of functionality and flexibility. The basic elements - the frame and the objects that can be placed in it - enable the use of a single fact-

sheet template for different output forms. The latest enhancements:

- Placement of objects depending on the respective fund (object override on fund level)
- Printout of photos/portraits and image objects, e.g. photos of fund managers and images of fund certificates pictures of fund certificates/fund signatures natures
- New and extended objects: Tabular (e.g. various performance tables) and graphical (e.g. performance charts)
- Mapping of the history of key figures

SUPPORT OF UNICODE LANGUAGES IN BIRT REPORTING

BIRT reports (fact sheets, customer reporting, committee reporting, etc.) can now also be created in Cyrillic languages, basically in any language with any character set.

After a planned 64-bit conversion, XENTIS will be able to do this independently. Until then, an external translation plug-in will be used, which is fully integrated and converts the special characters into UNICODE when preparing the reports.

FASTER REPORT PREPARATION AS OF XENTIS RELEASE 5.7.2

As of XENTIS Release 5.7.2, Excel reports (Excel rendering) are prepared on the XENTIS application server and no longer on the Windows client.

In addition to reducing the load on the Windows client, and in particular on the KS client (communications server), the time required to prepare the reports is considerably shorter.

Furthermore, the 'rendering' on the application server offers additional functions in the Excel preparation, which are gradually being integrated into the standard reports:
Grouping of columns, activation of the filter function, free choice of cell background colors, etc.

'Rendering' on the application server can be activated via the application configuration for individual reports (test phase) or for all reports.

Platforms supported by XENTIS

This section describes the dependency of the XENTIS software on basic technologies, namely operating systems and database systems. The continuously updated compatibility matrix shows the supported combinations of XENTIS release and OS type/version. Similarly, the compatibility matrix of supported Oracle versions shows which database versions are compatible with XENTIS releases. The information published here is continuously updated in the document 'XENTIS_USRM_Compatibility'.

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Daniel Hümbeli
Christoph Wassmer

OPERATING SYSTEM VERSIONS XENTIS APPLICATION SERVER

Standard compatibility checks are performed for the most recent minor release of the most recent major release. Profidata updates its test environment weekly. Test results are published monthly. Upon request, compatibility testing can be performed by Profidata using the latest minor releases of the latest available major releases. This may not be standard procedure but may be necessary for compatibility with older hardware.

Profidata recommends migrating to newer versions of XENTIS in two separate steps by first upgrading the operating system to the current release and then migrating XENTIS in a second step. Profidata supports this upgrade path by verifying compatibility for all supported XENTIS releases (applies to the most current minor releases) with the target operating system releases.

RHEL – Red Hat Enterprise Linux (Intel x86-64)

XENTIS	7.5	7.6	7.7	7.8	7.x (7.9)	8.x (8.6)	9.x
5.6.x	❌	✅	✅	✅	✅	❌ 3)	
5.7.x	−	−	−	−	✅	❌ 3)	
5.8.x	−	−	−	−	✅ 6)	✅ 3)	
5.9.x	−	−	−	−	✅ 6)	✅ 3) 5)	
6.0.x	−	−	−	−	❌	✅ 5)	5)

OL – Oracle Linux (Intel x86-64)

XENTIS	7.5	7.6	7.7	7.8	7.x (7.9)	8.x (8.6)	9.x
5.6.x	❌	−	✅	✅	✅	❌ 3)	
5.7.x	−	−	−	−	✅	❌ 3)	
5.8.x	−	−	−	−	✅ 6)	✅ 3)	
5.9.x	−	−	−	−	✅ 5) 6)	✅ 3) 5)	
6.0.x	−	−	−	−	❌	✅ 5)	5)

✅   Verified
❌   Not compatible, verification not planned
−   This combination has never been verified
3)   XENTIS 5.5.x, 5.6.x and 5.7.x are not compatible with RHEL/OL 8.x and currently there are no plans for this support. Profidata supports the migration path from RHEL/OL 7 to RHEL/OL 8 with releases 5.8.x or 5.9.x
5)   Planned, but not yet verified
6)   The minimum required minor release for XENTIS 5.8.x/5.9.x is RHEL/OL 7.9

WINDOWS VERSIONS

As of Release 5.6, the XENTIS-client supports the operating systems Windows 10, Windows Server 2016 and Windows Server 2019 (used in combination with Terminal Server). Tests for Windows 11 and Windows Server 2022 are currently in progress. Release will be made as soon as these tests are successfully completed.

OFFICE VERSIONS

As of Release 5.6, compatibility with Office/Excel is only granted for versions 2016 as well as 2019. As of Release 5.7, the newly implemented Excel rendering is available, which contributes to an unbundling of the technical dependency on Microsoft Excel. The changeover is to take place step-by-step (report by report) as part of a changeover project. Both Excel rendering variants (old and new) are available for this purpose in Releases 5.7, 5.8 and 5.9. As of Release 6.0.x, however, only the new rendering variant is supported. The changeover must therefore be made in advance.

Detailed information on the supported versions, including the required office packages, can be found in the document 'XENTIS_USRM_Compatibility'.

ORACLE DATABASE VERSIONS

XENTIS requires at least Oracle Standard Edition. However, Enterprise Edition may be required based on Oracle licensing policies depending on server size. Enterprise Edition is recommended for diagnostic and tuning package options ('Performance' tab in Oracle Enterprise Manager).

The CDB architecture (SingleTenant or Multi-Tenant) is supported as of XENTIS release 5.5.x. The CDB architecture requires at least Oracle Database 12.2.

POSTGRESQL

The pilot with the open-source database Post-greSQL is still pending.

Oracle Database Versions

XENTIS	Oracle 12.2.0.1 Client [3]	Oracle 19.x Client [4]	Oracle 12.1 [2] Server	Oracle 12.2 Server	Oracle 18c Server [6]	Oracle 19c Server [6] [7]	Oracle 21c Server
5.5.2	✅	✅	✅	✅	✅	❌	
5.5.3	✅	✅	✅	✅	✅	✅	
5.6.x	✅	✅	✅	✅	✅	✅	
5.7.x	– [5]	– [5]	❌	✅	✅	✅	
5.8.x	– [5]	– [5]	❌	❌	❌	✅	
5.9.x	– [5]	– [5]	❌	❌	❌	✅	
6.0.x	– [5]	– [5]	❌	❌	❌	✅	[8]

2) Recommended for 12.1 Patch Set 12.1.0.2 or newer
3) Oracle Client 12.1 is not supported. The reason for this is a memory leak which jeopardises the operation of XENTIS.
   This has been fixed by Oracle in Oracle Client Version 12.2.
   Profidata verified XENTIS with Oracle Client 12.2.0.1 (in precisely this version)
4) Oracle 19 Client is supported. Because XENTIS expects the Oracle 12 libraries, a symlink for libclntsh.so.12.1 to libclntsh.so.19.x must be created. Please refer to the XENTIS installation manual.
5) Oracle Client is bundled in the XENTIS package; no longer a requirement
6) 18c formerly designated 12.2.0.2, 19c former designated 12.2.0.3
7) If VDB is used, the following permission must be granted for the VDB DB user: 'grant create job to <vdbx_xenp>;'
8) Tests planned

Extended Country Rule Set in XENTIS

With the new country-specific rule sets for Ireland and money market funds according to the EU regulation, Profidata is expanding its range of predefined country rule sets for investment compliance.

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Oliver Stör

COUNTRY RULE SET IRELAND

Investment compliance rules are formalized in various Central Bank of Ireland publications. These documents transpose the relevant requirements from the EU directives into national Irish law.

The rules for UCITS funds are set out in the following rulebooks, among others:

- SI-230: CENTRAL BANK (SUPERVISION AND ENFORCEMENT) ACT 2013 as amended in version of 2019
- SI-352: EUROPEAN COMMUNITIES (UCITS) REGULATIONS of 2011

AIF funds have their own AIF Rulebook, which is also published by the Central Bank of Ireland.

The Investment Compliance Agenda 'IE – CITS Notices/AIF Rulebook' implements the investment compliance rules from the 'UCITS

Rule set: [$EUM_RS_IGM] Investment Guidelines for EU-MMF
　　Note: [$EUM0005BE488BDF6BF4] Please only define one single root rule-set, here
　　Rule set: [$EUM_RS_CALC] Calculation rules
　　Rule set: [$EUM_RS_GNRL] Chapter I - General provisions
　　Rule set: [$EUM_RS_ELIG] Chapter II - Obligations concerning the investment policies of MMFs - Section I - General rules and eligible assets
　　　　Rule set: [$EUM_RS_EA] EU-MMF: Art. 9 - Eligible assets
　　　　　　Rule: [$EUM_R_EA_01] {$EUM_R_EA_01_P1}: Eligible Assets
　　　　　　Rule: [$EUM_R_EA_02] {$EUM_R_EA_02_P1}: Short Selling is not allowed
　　　　　　Rule: [$EUM_R_EA_03] {$EUM_R_EA_03_P1}: No direct or indirect exposure to equities and commodities
　　　　　　Rule: [$EUM_R_EA_04] {$EUM_R_EA_04_P1}: No securities lending or securities borrowing
　　　　　　Rule: [$EUM_R_EA_05] {$EUM_R_EA_05_P1}: Borrowing and lending cash is not allowed
　　　　Rule set: [$EUM_RS_EDCI] EU-MMF: Art. 12 - Eligible deposits with credit intitutions
　　　　Rule set: [$EUM_RS_EFDI] EU-MMF: Art. 13 - Eligible financial derivative instruments
　　　　Rule set: [$EUM_RS_EREPO] EU-MMF: Art. 14 - Eligible repurchase agreements
　　　　Rule set: [$EUM_RS_REVREPO] EU-MMF: Art. 15 - Eligible reverse repurchase agreements

Notices' and the 'AIF Rulebook' of the Central Bank of Ireland. The following rule sets are applied:
- CBI UCITS Notices: General investment powers and limits for UCITS schemes
- CBI AIF Rulebook: General Investment powers and limits for AIF retail schemes
- The Convention on Cluster Munitions

The rule sets 'CBI UCITS Notices: General investment powers and limits for UCITS schemes' and 'CBI AIF Rulebook: General Investment powers and limits for AIF retail schemes' are based on the provisions of the corresponding rulebooks.

CBI UCITS NOTICES: GENERAL INVESTMENT POWERS AND LIMITS FOR UCITS SCHEMES

This set of rules summarizes all the checks that result from the UCITS rulebooks. Essentially, it contains all the test rules that are also familiar from other national country rule sets for UCITS. The country rule set for Ireland also contains a number of rules for testing the EU regulations relating to efficient portfolio management (EPM). These include various tests for collateral received (diversification, correlation, etc.).

CBI AIF RULEBOOK: GENERAL INVESTMENT POWERS AND LIMITS FOR AIF RETAIL SCHEMES

This rule set summarizes all the review rules that can be derived from the AIF Rulebook. The AIF Rulebook contains extensive rules for retail investor AIFs (public AIFs), which are reflected in the Country Rule Set. In the current implementation of the Country Rule Set for XENTIS, rules for certain types of Qualified Investor AIF have also been implemented.

OTHER

The Ireland country rule set also includes a rule set for testing regulations related to 'master feeder' structures. As a special feature, some rules are implemented for Ireland resulting from the Convention for the Prohibition of Cluster Munitions.

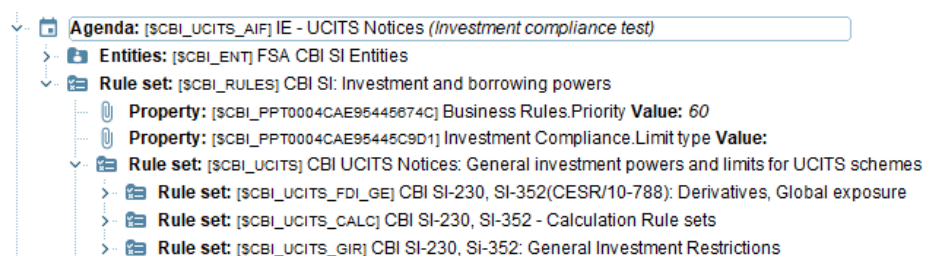The Country-Rule-Set Ireland is available in English.

COUNTRY-RULE-SET EU-MMF

The MMF Regulation (2017/1131/EU) introduced uniform rules across the EU. The aim of this standardization was to make these funds more resilient to market dislocations, such as significant investor withdrawals from money market funds. The design as an EU regulation ensures that these rules apply uniformly throughout the EU, thus preventing national deviations.

The rules of CESR Directive 10-049, which previously applied to UCITS money market funds as additional rules, will no longer apply. Instead, the new regulation bundles all rules applicable to money market funds in one place. This in turn leads to an enlargement of the agenda for EU MMFs compared to the agenda for CESR 10-049, as rules previously included in the UCITS Directive (e.g. diversification and concentration rules) now become an integral part of the MMF Regulation.

The new regulation distinguishes three types of money market funds:
- Variable NAV (VNAV) funds. The issue/redemption takes place at the net value per unit
- Funds with constant NAV (CNAV) The issue/redemption takes place at an

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> ∨ 🗐 **Agenda:** [$CBI_UCITS_AIF] IE - UCITS Notices *(Investment compliance test)*
> > ∨ 📁 **Entities:** [$CBI_ENT] FSA CBI SI Entities
> > ∨ 🗎 **Rule set:** [$CBI_RULES] CBI SI: Investment and borrowing powers
> > 〰️ 📎 **Property:** [$CBI_PPT0004CAE95445674C] Business Rules.Priority **Value:** *60*
> > 〰️ 📎 **Property:** [$CBI_PPT0004CAE95445C9D1] Investment Compliance.Limit type **Value:**
> > ∨ 🗎 **Rule set:** [$CBI_UCITS] CBI UCITS Notices: General investment powers and limits for UCITS schemes
> > > 🗎 **Rule set:** [$CBI_UCITS_FDI_GE] CBI SI-230, SI-352(CESR/10-788): Derivatives, Global exposure
> > > 🗎 **Rule set:** [$CBI_UCITS_CALC] CBI SI-230, SI-352 - Calculation Rule sets
> > > 🗎 **Rule set:** [$CBI_UCITS_GIR] CBI SI-230, Si-352: General Investment Restrictions

unchanged net value per unit. These funds must invest a large part of their assets in government invested in government securities

- Funds with low volatility net asset value volatility (LVNAV) The issue/redemption is made at a net redemption takes place at a net value within a specified range

In particular, the rules of the Money Market Fund Regulation regarding liquidity differ depending on the type of money market fund:

- CNAV money market funds: at least 10% in daily maturing assets, at least 30% in weekly maturing assets
- VNAV money market funds: At least 7.5% in daily maturing assets, at least 15% in weekly maturing assets

In addition, the agenda contains verificatio rules for

- Eligible assets (Article 9)
- Deposits with credit institutions (Article 12)
- Eligible financial derivatives (Article 13)
- Eligible repos/reverse repos (Article 14/15)
- Eligible money market funds (Article 16)
- Diversification rules (Article 17)
- Concentration rules (Article 18)
- Rules for short-term money market funds (Article 24)
- Rules for standard money market funds (Article 25)
- Special rules for CNAV and LVNAV funds (Articles 2 and 34).

Thus, Profidata implements a country rule set for EU money market funds that is applicable in all EU member states.

With the implementation of the country rule sets outlined above, Profidata is expanding its portfolio of predefined, standardized rule sets for XENTIS investment compliance and will be happy to provide further information and answer any questions you may have.

Profidata on the move

To have been successful for 37 years now fills us at Profidata with humility and pride at the same time. Of course, this requires the luck of the fittest, but first and foremost it is the result of a sustainable strategy that our Group CEO and owner Christian Widmer, who, with the support of the operational management, has consistently implemented over the years in the interests of our customers and our employees.

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Dr. Frank Jenner

It is therefore no coincidence that we not only invest in the modernization of our 'Software & More' solutions year in, year out, but also in the qualification and cohesion of our workforce in a variety of ways. We are convinced that the top performance reflected in the steady growth of our clientele can only be achieved in the future with the best employees.

To continue to position Profidata as an attractive employer for talented and passionate employees in an area that is by no means free of competition, and in view of the increasing demand for personnel in step with new customer projects, we are using a diverse package of measures. This is aimed at both the extrinsic and intrinsic motivation of existing and new employees. In this context, offering an attractive workplace in terms of accessibility, functionality, catering, and ergonomics is a factor that should not be underestimated. With this in mind, our owner decided a few years ago to give several of our locations – Zurich, Luxembourg and Iași – a facelift in line with the new conditions, thus creating a further basis for securing Profidata's long-term success.

In the last issue of the customer magazine, we presented a project preview. Today, illustrated with a few photos, we are pleased to

present our newly constructed office premises in the center of Zurich, which we will move into during summer 2022. Strategically located in close proximity to the Alstetten train station and a number of renowned companies, as well as with direct access to the highway and public transport connections to all main arteries, we were able to inspire ourselves with an exciting architectural concept. The latter impresses with its spacious 2,500 m² office, customer reception and meeting zones adapted to modern requirements, future-oriented standards such as (data) security and sustainable air conditioning, as well as excellent catering and shopping facilities within walking distance of the office. All in all, an overall package that contributes significantly to our attractiveness as an employer and thus ultimately benefits you, our loyal customers.

Not only in Zurich, but also in Luxembourg we have recently moved to a new address. We have now succeeded in bringing all our employees from Profidata Services and Arkus together under one roof in a central location in the immediate vicinity of our customers, the airport and the city center.

In addition, the management has decided to move to a new office complex at our location in Iași, which meets the most modern requirements. This will accommodate the rapidly growing staff of Profidata Romania and the associated space requirements in a new 850 m². The following visualizations illustrate why our Romanian employees are already looking forward to moving into the new offices in March.
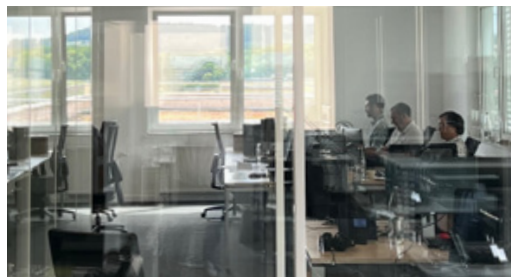
Profidata Luxembourg

Profidata Iași (from 2023)

PROFIDATANEWS