

# Framesoft Contract Management (FCM) Overview



Framesoft AG Software Applications | Sumpfstrasse 15 | CH-6302 Zug | Switzerland



## Table of Contents

Table of Contents	2
<b>1 CONTRACT MANAGEMENT</b>	<b>3</b>
1.1 Why is Contract Management so important?	3
1.2 How Framesoft Contract Management (FCM) contributes to these goals	4
<b>2 FRAMESOFT CONTRACT MANAGEMENT (FCM)</b>	<b>7</b>
2.1 FCM Objectives & Benefits	7
<b>3 FRAMESOFT CONTRACT REPOSITORY (FCR) - FCM CORE MODULE</b>	<b>8</b>
3.1 Agreement Repository	8
3.2 Workflow Engine	8
3.3 Contract Generator & Document Editor	9
3.4 Event & Lifecycle Management	10
3.5 Netting Engine & Analyser	12
3.6 Search & Reporting	13
3.7 Audit	14
<b>4 FRAMESOFT CONTRACT MANAGEMENT (FCM) EXTENSIONS</b>	<b>16</b>
4.1 Framesoft Agreement API	16
4.2 Framesoft Document Assembly (FDA)	17
4.3 Framesoft Online Negotiation (FON)	19
4.4 Framesoft Artificial Intelligence (FAI)	21
4.5 Framesoft Counterparty Interface (FCI)	23
4.6 Framesoft Data Insight (FDI)	25
4.7 Framesoft Advanced Security (FAS)	26
<b>5 FRAMESOFT SOLUTIONS SEAMLESSLY INTEGRATED WITH FCM</b>	<b>29</b>
5.1 Framesoft Document Management (FDM)	29
5.2 Framesoft Confirmation Generator (FCG)	29

# 1 Contract Management

## 1.1 Why is Contract Management so important?

Contract management is not just a supportive function; it is a strategic imperative. It ensures regulatory compliance, risk mitigation, operational efficiency, and the maintenance of client trust and relationships, all of which are essential for the success and sustainability of any organization in a complex and dynamic environment.

Contract Management plays a crucial key role as follow:

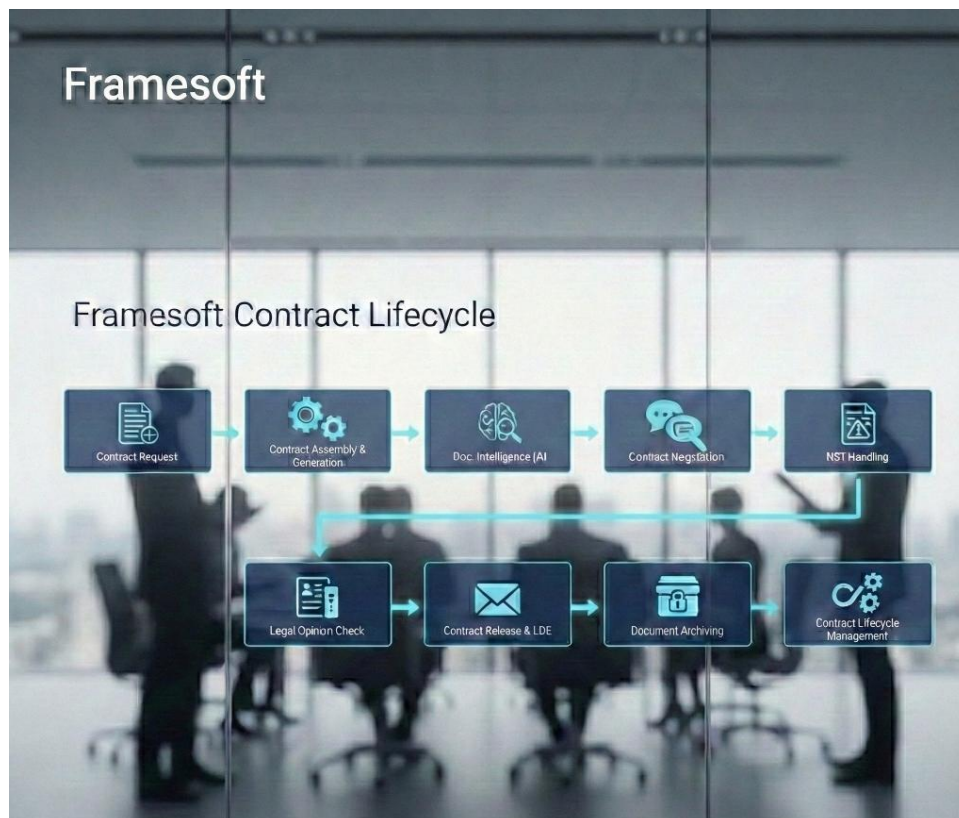
- **Regulatory Compliance**  
Contracts must comply with a plethora of laws and regulations, including international standards, anti-money laundering (AML) regulations, and data protection laws. Effective contract management ensures compliance, thus avoiding legal penalties, financial losses, and reputational damage.
- **Risk Management**  
Financial services deal with a range of risks including credit risk, market risk, operational risk, and liquidity risk. Contracts often contain complex terms related to risk management. Proper management of these contracts and their underlying transactions helps in identifying, assessing, and mitigating these risks timely and effectively.
- **Complex Products and Services**  
The complexity of financial products and services, such as derivatives, insurance policies, and investment vehicles, necessitates meticulous contract management. It ensures that all parties clearly understand their obligations, rights, and the intricacies of the products / services involved.
- **Client Trust and Relationships**  
Efficient contract management helps in building and maintaining trust by ensuring transparency, adherence to agreements, and swift resolution of issues.
- **Operational Efficiency**  
Efficient contract management processes lead to significant operational efficiencies. Automating and streamlining contract processes reduce administrative burdens.
- **Data Security and Privacy**  
Financial institutions handle sensitive client data, making data security and privacy a top priority. Contract management ensures that all contracts comply with data protection laws and corporate standards.
- **Global Operations and Compliance**  
Companies operating globally, subjecting them to various international laws and regulations. Effective contract management is vital for navigating these complexities, ensuring global compliance and operational consistency.
- **Mergers and Acquisitions (M&A)**  
Involving the review and integration of numerous contracts, ensuring they align with the new entity's goals and comply with regulatory requirements.
- **Cost Management**  
Effective contract management helps in controlling costs. It ensures that the terms of any agreement are optimized for financial efficiency and aligned with the organization's financial goals.
- **Adaptability to Market Changes**  
The financial services industry is subject to rapid market changes and economic fluctuations. Agile contract management allows institutions to quickly adapt their contractual relationships and terms to reflect changing market conditions, maintaining competitiveness and relevance.
- **Intellectual Property and Confidentiality**  
Effective contract management protects valuable intellectual property and trade secrets through confidentiality clauses and non-disclosure agreements, safeguarding the firm's competitive edge.
- **Litigation and Dispute Resolution**  
Properly managed contracts reduce the likelihood of disputes and provide clear mechanisms for dispute resolution.

- **Auditing and Reporting**  
Financial institutions face strict auditing and reporting requirements. Efficient contract management ensures that all contracts are properly documented, easily accessible, and audit-ready, facilitating compliance with reporting obligations.
- **Technology Integration**  
The increasing role of technology in financial services adds complexity to contracts. Effective contract management ensures that these technological aspects are properly addressed.
- **Sustainability and Social Responsibility**  
With growing emphasis on sustainability and ethical practices, organizations are increasingly required to demonstrate these values in their operations and investments.

## 1.2 How Framesoft Contract Management (FCM) contributes to these goals

Framesoft Contract Management (FCM) encompasses the entire lifecycle of any contract (type), from its inception to termination and does not only streamline the process but also adds value through insights, risk management, and improved collaboration. This leads to a more organized, efficient, and controlled approach to managing contracts in an organization.

With FCM organizations gain control of its contracts and supporting documents over its complete lifecycle.



### 1.2.1 Contract Request

FCM supports the creation and management of any contract type (contract type neutral) and its supporting documents. It offers a contract type specific data item repository with unlimited expandability regarding contract types and data items. New contract types and its data items can be created or updated in FCM at any time by a business user.

By using predefined FCR workflow(s) paths onboarding of new clients or amending existing contracts / documents automatically moves the request / documents from one stage to another such as e.g.:

- Request Initiation
- Credit Risk Terms entry
- Due Diligence Checks
- Contract Drafting
- Contract Negotiation / Review

- Approvals
- Release

Based on the request type different business routes might followed:

- Agreement / Annex
- Amendment
- Non-Standard Terms (NST)
- Legal Opinion
- Termination

### **1.2.2 Contract Assembly & Generation**

The primary purpose of document assembly is to streamline the process of generating complex contracts and supporting documents that may require customization based on specific client or legal needs or scenarios.

Framesoft Document Assembly (FDA) is a revolutionary tool that is transforming the way organizations create and manage contracts / documents. Using Framesoft Document Assembly (FDA) is a game-changing innovation of the contract / document automation strategy via combining automation, data integration, pre-designed template clauses, and rules to generate new, tailor-made contracts / documents with astonishing speed and accuracy.

But the thrills do not end with the document generation. Via workflow automation documents generated are provided for review, approval, e-signatures, and distribution making the process efficient from start to finish. Automation has been in the focus of many institutions, but truly little has been done to effectively target documentation. It is not only about cost and inefficiency, but also about extremely valuable data not being used.

For more details, please refer to section "3.3 Contract Generator & Document Editor" as well as section "4.2 Framesoft Document Assembly (FDA)" of the document at hand.

### **1.2.3 Artificial Intelligence**

Framesoft Artificial Intelligence (FAI) is an advanced AI-driven module designed to automate the understanding, verification, and operationalization of contract documents. Fully integrated into the Framesoft Contract Management (FCM) platform and the Framesoft Contract Repository (FCR), FAI enables organizations to analyze, validate, and reconcile contracts with accuracy, transparency, and full auditability.

For more details, please refer to section 4.4 Framesoft Artificial Intelligence (FAI) of the document at hand.

### **1.2.4 Contract Negotiation**

Contract negotiation is a critical phase in the contract management process, involving the discussion and agreement on the terms and conditions of a contract between two or more parties. It aims to reach a mutually beneficial agreement while protecting each party's interests.

Framesoft Online Negotiation (FON) is a platform for electronically assembling, generating, reviewing, and negotiating contracts and any other documents. FON is completely integrated in Framesoft Contract Management (FCM) supporting seamless interaction with any contract request workflow. Invite participants and conduct an internal review and external negotiation of the automatically generated contract draft documents or received contracts with your counterparties.

For more details, please refer to the section 4.3 Framesoft Online Negotiation (FON) of the document at hand.

### **1.2.5 Non-Standard Terms (NST) Handling**

During a contract negotiation parties involved may request an update of contract terms. Here, the Non-Standard-Terms (NST) handling kicks in. For any contract term (clause) updated in a contract negotiation a Non-Standard Terms workflow can be started, extracting the changed contract term together with the standard term. Based on the nature of the change pre-defined review and approval tasks are started. Once the change is approved it can be shared with the counterparties for review and approval. Furthermore, the approved NST could be stored for future usage in newly requested contracts as a preapproved Non-Standard Term.

### **1.2.6 Legal Opinions**

A legal opinion request refers to the process of seeking a formal statement or advice from a legal expert regarding the legality, enforceability, or interpretation of a contract. This is a crucial step in ensuring that the contract is legally sound and in compliance with applicable laws and regulations.

A legal opinion request is an essential tool in contract management for mitigating legal risks and ensuring that contracts are not only commercially sound but also legally compliant. It provides an added layer of security and confidence, especially in complex or high-stakes contract negotiations. The need for a legal opinion can arise at various stages of the contract management process, such as during contract drafting, negotiation, or before the final execution of a contract.

FCM supports a Legal Opinion request as part of the contract request workflow or at a later stage by covering all tasks required such as trigger of the request, selecting an expert, cost coverage, Netting Recommendations and releasing the Legal Opinion.

### **1.2.7 Contract Release & Legal Document Execution**

Properly completing, signing, and formalizing a contract to become legally binding and enforceable supported in FCM via document execution tasks and notification.

### **1.2.8 Archiving**

Archiving contracts and related documents in a centralized contract repository makes it easier to quickly retrieve and manage these documents and helps in complying with legal and regulatory requirements for document retention. Framesoft Document Management (FDM) is a software solution for professional & global content and collaboration management. FDM allows managing all types of electronic content such as e.g. e-Files and documents. FDM is tightly integrated with FCM and a user's working space.

### **1.2.9 Contract Event & Lifecycle Management**

Contract Event / Lifecycle Management is a pivotal component of effective contract management, encompassing the entire spectrum of activities and processes from the initiation of a contract to its expiration or renewal. This holistic approach ensures that every phase of a contract's lifecycle is efficiently managed.

For more details, please refer to the section 3.4 Event & Lifecycle Management of the document at hand.

## 2 Framesoft Contract Management (FCM)

The Framesoft Contract Management (FCM) solution suite empowers corporate professionals to effectively manage the entire lifecycle of critical contracts—from creation to termination. FCM is a transformative solution that accelerates organizational document management. It combines automation, data integration, pre-designed templates, and rules to swiftly create customized documents with remarkable precision. The benefits extend beyond creation; the automated workflow ensures efficient review, approval, e-signature processes, and distribution, optimizing the entire document lifecycle.

Framesoft Contract Management (FCM)												
Core Component							Extensions					
Framesoft Contract Repository (FCR)							FDA	FON	FAI	FDI	API	FCI
Agreement Repository	Workflow & Control	Document Generation	Lifecycle Management	Netting Engine	Reporting	Audit	Document Assembly	Online Negotiation	Artificial Intelligence	Data Insight	Programming Interface	CP Interface
Contract Repository	Rule Engine	Agreement Repository	Amendment Handling	Netting Analyzer	Report Generator	Audit Trail	Document Template Assembly	Negotiation Preparation	Digitalization	In-depth data analysis	Create	CP Creation
Data Repository	Task Wizard	Clause Library	Obligations & Commitments	Netting Algorithm	Dash-boarding	Change History	Assembly Intelligence	Negotiation	Extraction	Adhoc Reporting	Read	Updates
Flexible Data Model	Data Enrichment & Validation	Rules Engine	Auditing	Real Time Netting Flags	Screen Exports	Status Transition	Version Control	Non-Standard Terms Handling	Contract Identification	Business Views	Update	Deletion
						4-eye Control		Reconciliation	Contract Analysis	Drill-Down & Up	Delete via REST API	Review / Approval

Framesoft Document Management (FDM)

FCM can seamlessly integrate with the corporate IT landscape, facilitating data retrieval and enabling information exchange with other systems. It can be utilized as cloud-based Software as a Service (SaaS).

### 2.1 FCM Objectives & Benefits

Digitize & automate end-to-end process from trade documentation request to recording netting flags & feeding collateral data to Trading & Risk Management systems.

- Regulatory Capital Optimization
- Risk Reduction
- Productivity & Growth
- Regulatory Compliance
- Transparency on Processes
- Data Capture & Management
- Document Management

### 3 Framesoft Contract Repository (FCR) - FCM Core Module

Framesoft Contract Repository (FCR) manages the entire lifecycle of agreements — from initial requests, through creation, negotiation, and execution. FCR also facilitates amendments, due diligence, and manages obligations and commitments. It supports milestones as well as compliance and retention management across all types of agreements.



FCR consists of the following modules:

#### 3.1 Agreement Repository

Based on its unlimited flexible data model, FCR supports the setup & design of any agreement / contract type, structured data items & clauses to be stored for contracts & annexes. FCR can be extended at any time to cover any new agreement types or additional details via configuration only. Access privilege restrictions on agreement data based on client entities are also supported in FCR.

#### 3.2 Workflow Engine

The FCR Workflow Engine is designed to manage, automate, and optimize business processes. It provides a structured approach to handling tasks, approvals, and the flow of information within an organization such as e.g.,

- Agreement / Contract Request & Onboarding,
- Non-Standard Term (NST) handling
- Legal Opinion
- Approval & Agreement Generation as well as
- Amendment handling

and offers the following functionalities:

- Process Modeling

Design and visualize workflows using a graphical interface, defining the sequence of tasks, decision points, and the flow of data.

- Task Management

Automates the assignment and tracking of tasks, ensuring they are completed by the right personnel in a timely manner.

- Rule Engine

Executes predefined business rules to route tasks, make decisions, and trigger actions based on specific conditions and criteria.

- Integration

It may relate to other enterprise systems (e.g., ERP, CRM, databases) to exchange data, ensuring seamless information flow across different platforms.

- Multi Workflow Integration / Bundling

Multiple contracts can be bundled to optimize data entry for all contracts in a single task & separated again upon reaching a defined workflow status (e.g., "Generation of first draft")

- Notification System

Send automated notification messages, e-Mails, alerts, and reminders to users about pending tasks, deadlines, and status changes to keep the process on track.

- Access Control

Manages user permissions and roles to ensure that only authorized individuals can perform certain actions or access sensitive information.

- Monitoring and Reporting

Offering visibility into workflow performance, generating reports and analytics on process efficiency, bottlenecks, and compliance. Furthermore, reassignments of workflow tasks can be managed.

- Audit

Complete Workflow History available.

### 3.3 Contract Generator & Document Editor

Based on assembled document templates from the FDA or the FCR template repository, contracts can be generated automatically as part of an onboarding workflow, manually by users, or triggered by external systems.

Any document generation is fundamentally based on the following core ingredients:

- Text Building Blocks (e.g., clauses, sections, and template components),
- Data Items (agreement- and counterparty-specific information), and
- Logic Components (e.g., mapping rules, conditional logic, and dependencies).

These ingredients are orchestrated to ensure consistent, data-driven, and rule-based document creation.

Once generated, documents can be reviewed, edited, and / or passed on for (online) negotiation.



Generated documents remain fully editable, and any modification is automatically tracked through versioning and revision management, ensuring full transparency and auditability via the embedded “Framesoft Docs” document editor.

Based on the assembled document templates via FDA or FCR template repository, documents (contracts) are generated automatically as part of an onboarding workflow, manually or triggered externally.

Framesoft Docs further provides the following capabilities:

- **Global Styles**  
Global Styles allow users to update the overall appearance of a document consistently across all sections, without the need to manually edit individual blocks, clauses, or pages.
- **Track Change Mode**  
Supports structured reviews and contract negotiations by tracking all changes, comments, and revisions.
- **Document Export**  
Documents can be exported in MS Word, MS Excel, or PDF format for downstream processing, sharing, or archiving.

### 3.4 Event & Lifecycle Management

Framesoft Contract Event & Lifecycle Management provides a comprehensive and structured framework for managing contracts across their entire lifecycle. It ensures that all contractual events, obligations, and changes are consistently governed from contract inception through execution, ongoing performance, amendment, and eventual expiration or termination.

The primary objective of the FCR lifecycle management module is to enable transparency, control, and automation across all contract-related activities, supporting compliance, risk mitigation, and optimized business outcomes.

- End-to-End Lifecycle Coverage

FCR supports a continuous and auditable contract lifecycle, encompassing the following core functional domains:

- ✓ Contract Review

Contracts are reviewed in a structured manner to ensure completeness, accuracy, and alignment with legal, regulatory, and commercial requirements prior to activation or amendment. This can be supported by using Framesoft Artificial Intelligence (FAI).

- ✓ Netting of Trades

Netting flags and logic support the identification and management of nettable agreements and transactions, enabling consistent treatment for risk, collateral, and regulatory purposes.

- ✓ Amendment Handling

Amendments are managed as first-class lifecycle events, with full traceability and comparison capabilities, including comparison of amendment records against the currently valid agreement as well as comparison of amendment records against the baseline agreement.

- ✓ Expiration & Termination

Critical lifecycle dates, including expirations, terminations, and renewal options, are actively tracked and managed through reminders, workflows, and status transitions.

- ✓ Permissions

Role-based access and permission controls ensure that contract data, lifecycle actions, and events are managed in accordance with defined governance and authorization models.

- ✓ Auditing

All lifecycle events, data changes, and status transitions are fully logged and auditable, providing transparency and supporting internal and external audit requirements.

- ✓ Compliance & Retention

Contracts are managed in line with regulatory compliance and data retention policies, ensuring that records are retained, archived, or disposed of according to applicable rules.

- ✓ Fee Calculation

Contractual fee structures and financial terms can be tracked and aligned with lifecycle events, supporting accurate calculation, validation, and downstream processing.

- ✓ Events & Milestones

Key contractual events and milestones (e.g., effective dates, notice periods, renewals, deliverables) are systematically tracked and monitored throughout the contract lifecycle.

- ✓ Obligations & Commitments

Contractual obligations and commitments are captured, monitored, and linked to reminders and workflows to ensure timely fulfillment and risk mitigation.

- ✓ Reporting & Performance

Comprehensive reporting and performance views provide insight into contract status, lifecycle events, obligations, and compliance metrics across the contract portfolio.

- Lifecycle Governance & Automation

Across all lifecycle stages, FCR provides:

- ✓ Reminder, follow-up, and to-do management

- ✓ Workflow-driven lifecycle transitions

- ✓ Change history and version transparency

- ✓ Controlled status transition handling

Framesoft Contract Event & Lifecycle Management delivers a unified, event-driven lifecycle framework that ensures contracts are consistently governed, auditable, and compliant—while providing full visibility and control from review and execution through amendment, performance, and termination.

### 3.5 Netting Engine & Analyser

FCR focuses on automated netting decisions based on legal opinions & netting rules. The netting engine scans on demand or automated as batch process FCR to find potentially nettable combinations of customer & counterparty (on branch level) and individual product traded. Based on these netting details risk systems can calculate legally correct netting results & accurate risk figures. It considers liquidation netting based on master agreements, as well as collateral agreements allowing further reduction of risk resulting from trades done that are covered under a CSA. Here again, FCR fully relies on configuration screens. All netting rules are adjustable at any time. It allows reacting immediately on market events. Furthermore, FCR offers all required contract management functionalities from the contract request until its termination. FCR's workflow engine leads through the process of draft agreement generation, negotiation, approval, and final generation. The final agreement terms are stored in FCR's highly flexible data model ready to support any agreement type.



- **Netting Types, Systems and Netting Rules**

Netting types and netting systems are configured in FCR. Each combination might have its own rule set that is pulled once the netting algorithm is started in the corresponding run mode. While liquidation netting is overseeing the master agreements (and annexes) according to the rule set for liquidation purposes, “Collateral Netting” is performing additional checks regarding the collateral enforceability of certain products under certain collateral annexes. In collateral run mode, when a collateral agreement has been identified, first the corresponding master agreement is evaluated to find the main products covered. Based on this result set, the collateral rules are applied, and products might be subtracted from the initial result set. An intersection is applied between the liquidation evaluation of the master and the collateral evaluation of the CSA, which provides the final collateral eligibility matrix. Typically counterparty properties are used to deal with counterparty types. To avoid duplication of data entry, the counterparty types are managed on master agreement level only, but collateral rules are further defined on the counterparty type.

- **Netting Algorithm**

The netting algorithm is based on the configuration of the netting rules in FCR. The FCR netting algorithm processes all agreements for which according to the jurisdiction of the counterparty and agreement type netting

rules are in place. Such netting checks are done on the level of the master agreement first. Upon success, available annexes are further evaluated, which potentially add additional products to the master coverage.

- Netting Analyzer

Real time netting evaluation of single agreements, groups of agreements or a free selection of agreements via FCR Netting Analyzer embedded in FCR.

### 3.6 Search & Reporting

The FCR Search & Reporting Module provides powerful, flexible, and user-friendly capabilities to access, analyze, and report on contract data across the entire repository. It enables users to efficiently retrieve structured contract information, gain transparency across agreement portfolios, and support operational, legal, risk, and compliance reporting requirements.



#### Key Capabilities

- Comprehensive Search Screens

Dedicated search interfaces allow users to query and navigate core FCR entities, including:

- ✓ Agreements
- ✓ Agreement clauses
- ✓ Counterparties
- ✓ Properties and additional contract-related data objects

Advanced filtering and sorting options enable precise and efficient data retrieval.

- **Framesoft Report Generator (FRG)**

The Framesoft Report Generator supports the definition, execution, and scheduling of customized report requests. Generated reports can be seamlessly passed on to Framesoft Data Insight (FDI) for further analysis, aggregation, and visualization.

- **Direct Data Export**

Overview tables within FCR can be exported directly to MS Excel, allowing users to perform ad-hoc analysis, reconciliation, and offline reporting with minimal effort.

- **Filtering in Overview Tables**

Configurable filters within FCR overview screens enable users to dynamically refine result sets based on contract attributes, lifecycle status, counterparties, dates, and other key criteria.

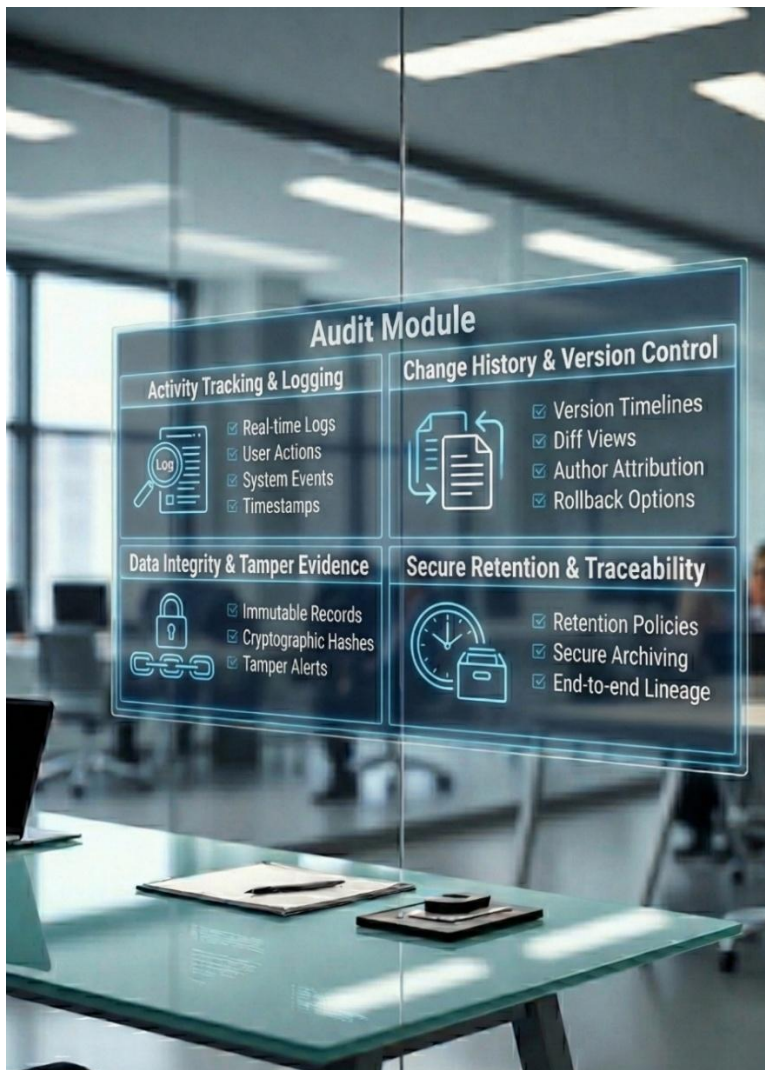
- **Configurable Reports as FCR-Screens**

Reports can be configured and exposed as native FCR screens, providing users with role-specific, real-time views embedded directly into their operational workflows.

The FCR Search & Reporting Module delivers fast access to structured contract data, flexible reporting capabilities, and seamless integration with analytical tools—enabling transparency, informed decision-making, and efficient contract portfolio management.

### 3.7 Audit

The FCR Audit Module provides a comprehensive and tamper-evident audit framework to ensure full transparency, accountability, and compliance across all contract-related activities. It maintains a complete audit trail of all record activity throughout the contract lifecycle, supporting regulatory, security, and operational oversight requirements.



## FCR Audit Module's Core Capabilities

- Comprehensive Activity Tracking & Logging

All relevant system activities are systematically recorded, including:

- ✓ Record creation
- ✓ Data access
- ✓ Modifications and updates
- ✓ Deletions

This ensures end-to-end traceability of user actions and system events.

- Change History & Version Control

Every change to contract data and documents is captured and made transparent through dedicated change history views and versioning mechanisms, enabling clear reconstruction of historical states.

- Data Integrity & Tamper Evidence

Audit mechanisms ensure the integrity of stored records and provide clear evidence of any unauthorized or unintended changes.

- Governance & Control Mechanisms

The Audit Module enforces strong governance through:

- ✓ Change History Screens providing detailed, user-readable audit views
- ✓ Controlled Status Transitions ensuring lifecycle changes follow defined rules
- ✓ Four-Eye (4-Eye) Control to support segregation of duties and approval requirements for sensitive actions

- Secure Retention & Traceability

All audit logs are stored securely and retained in accordance with defined retention policies. This guarantees long-term traceability and supports internal controls, external audits, and regulatory examinations.

The FCR Audit Module delivers a robust, audit-ready foundation by combining comprehensive activity logging, strict governance controls, and secure retention—ensuring transparency, compliance, and trust across the entire contract lifecycle.

## 4 Framesoft Contract Management (FCM) Extensions

To extend the functional scope of the Framesoft Contract Repository (FCR) the following fully integrated extensions are available:

- Framesoft Agreement API
- Framesoft Document Assembly (FDA)
- Framesoft Online Negotiation (FON)
- Framesoft Artificial Intelligence (FAI)
- Framesoft Counterparty Interface (FCI)
- Framesoft Data Insight (FDI)
- Framesoft Advanced Security (FAS)

### 4.1 Framesoft Agreement API

The Framesoft Contract Repository (FCR) Agreement Application Programming Interface (API) provides a robust and secure integration layer that seamlessly connects FCR with corporate IT landscapes and external systems. It enables standardized, automated interaction with core contract data and lifecycle elements, supporting straight-through processing and system interoperability.

The Agreement API allows external and corporate systems to programmatically trigger Create, Read, Update, and Delete (CRUD) operations on key FCR objects, ensuring consistent data exchange and controlled lifecycle management.

The FCR Agreement API enables interaction with a broad range of contract-related entities, including but not limited to:

- Agreements
- Agreement Clauses (first-level data points)
- Annexes
- Amendments
- Bank and Counterparty Branches
- Underlying Principals
- Counterparty Properties (e.g., Form of Organization)
- Netting Flags
- Product Coverage

Additional configurable agreement-related objects

This flexible object model allows institutions to integrate FCR deeply into their contractual, legal, risk, and operational processes.

The FCR Agreement API is provided as a RESTful API, designed for scalability, interoperability, and ease of integration. All API requests are subject to strict authentication and validation controls enforced by FCR, ensuring data integrity, security, and compliance with internal governance requirements.

Each request undergoes credential verification and rule-based validation before being processed.

As an integral part of the API offering, FCR provides a dedicated API Health Status component, delivering transparency and operational control over API interactions. This component supports:

- A complete log of all API requests received
- Status monitoring for individual requests
- Visibility into rejection reasons for non-accepted requests

This ensures efficient troubleshooting, operational monitoring, and audit readiness.

The FCR Agreement API enables secure, automated, and controlled integration of contract data and lifecycle events into enterprise systems, supporting straight-through processing, data consistency, and scalable contract management across the organization.

## 4.2 Framesoft Document Assembly (FDA)

Framesoft Document Assembly (FDA) is an advanced document automation solution designed to fundamentally simplify and accelerate the creation, management, and lifecycle control of complex legal and commercial documents.

FDA enables organizations to generate accurate, compliant, and fully tailored documents by combining reusable clause content, structured templates, integrated data sources, and rule-based logic. Documents are not created as static files but are dynamically assembled at runtime from a governed clause library, ensuring consistency, traceability, and scalability across all document types.



FDA seamlessly integrates workflow automation for review, approval, electronic signature, and distribution, enabling an efficient and controlled end-to-end document process.

At the heart of FDA is the principle that each clause is a modular, reusable building block. A clause maintained once in the clause library can be reused across any number of documents, sections, or document templates, without duplication.

Any update to a clause in the FDA clause library automatically:

- Creates a new clause version
- Triggers a mandatory approval process
- Prevents the updated version from being used for document generation until approval is completed

This ensures that only legally approved and governed content is used in automated document creation.

New document templates can be assembled on demand and at runtime by combining approved clauses, sections, and sub-documents, significantly reducing setup time while maintaining full control and compliance.

FDA consists of the following functional Components:

- Clause Library

The clause library is a centralized repository of legally vetted, reusable clauses.

Clauses

- ✓ contain placeholders for variable data, making them dynamic and adaptable
- ✓ can be reused across multiple document types and templates
- ✓ are fully version-controlled; any clause update creates a new clause version
- ✓ require approval before the updated version can be used for document generation
- ✓ retain all historical clause versions for audit, compliance, and traceability

In addition to versioning, FDA distinguishes clearly between:

- ✓ Clause versions (library-level changes, governed and approved), and
- ✓ Clause revisions (document- or negotiation-specific changes)

This distinction provides full transparency across the entire document lifecycle.

- Document Template Assembly

FDA allows clauses to be assembled e.g., into:

- ✓ Sections and sub-sections
- ✓ Sub-documents
- ✓ Complete document templates

Templates can be created or modified on the fly, using approved clauses from the FDA clause library. Any creation or update of clauses, sections, or templates is routed through an approval workflow before release.

FDA's Document Assembly Intelligence automatically manages numbering, formatting, and styles during generation.

- FCR Integration

FDA integrates with FCR's data model to:

- ✓ Populate clause variables
- ✓ Apply conditional logic
- ✓ Ensure data consistency across documents

- Conditional Logic

Rule sets determine:

- ✓ Which clauses or paragraphs are included
- ✓ How data is populated
- ✓ Under which conditions alternative wording or structures apply

This enables the generation of highly tailored documents without manual intervention.

- Document Generation

Approved FDA document templates can be used for document generation via:

- ✓ Integration into a Document Request Workflow
- ✓ (Re-)generation of manually selected documents
- ✓ API-triggered document generation
- ✓ Additional configurable generation actions

The correct document template is selected automatically based on predefined mappings.

- Post-Generation Editing & Clause Revisions

After generation, documents are presented in an integrated editor for post-generation editing.

If a clause is modified as part of a contract negotiation:

- ✓ The change is recorded as a clause revision, not as a new clause library version

- ✓ The original clause version remains unchanged in the library
- ✓ The revision is tracked at document level with full auditability

Each document update creates a new document revision number, allowing FDA to track:

- ✓ The clause versions used at generation time
  - ✓ Any clause revisions made during negotiation or post-generation editing
- Version Control & Lifecycle Management

FDA provides comprehensive lifecycle management for clauses including:

    - ✓ Full version history for clause versions & clause revisions
    - ✓ Search across clauses
    - ✓ Clause version and clause revision usage analysis
  - Clause & Document Template Approval Processes

Approval workflows ensure that:

    - ✓ New or updated clause versions must be approved before use
    - ✓ Templates are governed prior to automated generation
    - ✓ Compliance and legal oversight are enforced consistently
  - Integration with Framesoft Online Negotiation (FON)

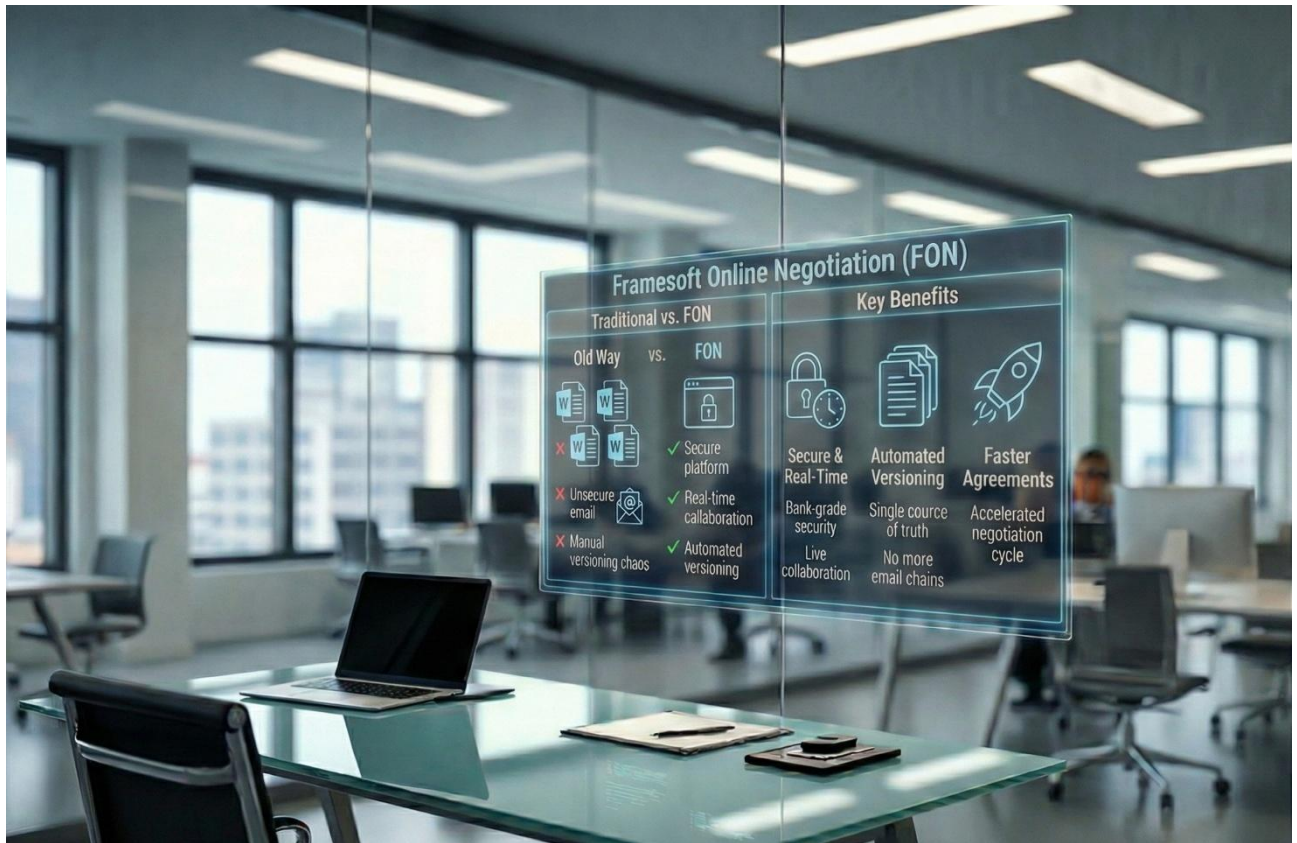
FDA integrates seamlessly with Framesoft Online Negotiation (FON), enabling negotiation, redlining, and agreement finalization on documents generated from FDA document templates.

### 4.3 Framesoft Online Negotiation (FON)

Framesoft Online Negotiation (FON) is a secure, real-time digital negotiation platform designed to replace traditional, inefficient contract negotiation processes based on multiple Microsoft Word files, manual version handling, and unsecure email exchanges.

FON enables organizations to electronically assemble, generate, review, and negotiate contracts within a single, governed environment. Multiple internal and external parties can work on the same negotiated document in parallel, with full transparency, version control, and workflow governance throughout the entire preparation, negotiation, finalization, and post-processing lifecycle

By using FON, the complete agreement preparation and negotiation process becomes simpler, faster, and significantly more transparent—without compromising control, compliance, or auditability.



#### 4.3.1 End-to-End Digital Negotiation Lifecycle

- Preparation of Agreement Negotiation

FON supports flexible contract preparation, allowing negotiation leaders to:

- ✓ Upload a generated contract draft directly from Framesoft Contract Repository (FCR) and Framesoft Document Assembly (FDA)
- ✓ Introduce agreement templates directly into FON (including copy & paste from MS Word when required)
- ✓ Organize standard templates in a central library available to authorized users
- ✓ Invite counterparties electronically to participate in the negotiation
- ✓ Conduct negotiations involving multiple parties

This ensures a consistent and controlled starting point for every negotiation.

- Agreement Negotiation (Real-Time & Parallel Collaboration)

FON enables real-time, structured contract negotiation without file exchanges:

- ✓ A designated negotiation leader manages the process as principal or agent
- ✓ Negotiations are fully workflow-controlled
- ✓ Changes are marked using distinct colors and can be accepted or rejected explicitly
- ✓ Full version history is maintained automatically
- ✓ Comments can be added by all parties and shared selectively or globally
- ✓ Clause locking prevents conflicts and enables simultaneous parallel work

All participants collaborate directly on the same document, eliminating email-based revisions and manual merge efforts.

- Agreement Finalization & Sign-Off

Once negotiations are completed, FON supports:

- ✓ Automated removal of mark-ups and change history
- ✓ Removal of internal and external comments
- ✓ Generation of a clean execution copy
- ✓ Electronic signature workflows

- ✓ Secure distribution of the execution copy to counterparties via email or preferred channels  
This ensures a controlled and professional transition from negotiation to legally binding execution.

- Agreement post-processing

After execution, FON ensures seamless downstream processing:

- ✓ Archiving of the executed agreement in the archive system (e.g., Framesoft Document Management – FDM)
- ✓ Reconciliation of agreement data point changes back into FCR for further processing and netting evaluation
- ✓ Storage of negotiated clauses in FON’s Clause Library for reuse in future negotiations

This closes the loop between negotiation, contract repository, and risk or reporting systems.

#### 4.3.2 Platform Capabilities & Integration

- Seamless Integration with Framesoft Ecosystem

FON is fully integrated with Framesoft Contract Repository (FCR), supporting:

- ✓ Any agreement request workflow
- ✓ Agreement-type-specific data points
- ✓ Automated draft generation via Framesoft Document Assembly (FDA)

Negotiations are therefore always aligned with internal data, workflows, and governance standards.

- Secure & fast Counterparty invitation

Invited counterparties only require internet access to participate securely.

- Intelligent Contract Processing

FON can be enhanced with Framesoft AI modules to support:

- ✓ Clause comparison and evaluation
- ✓ Clause categorization and classification
- ✓ Data point detection, extraction, and reconciliation

This enables efficient negotiation even for third-party contracts, including AI-based clause matching against the internal clause repository.

#### 4.3.3 Business Value

By replacing document-centric negotiation with a collaborative, workflow-driven platform, Framesoft Online Negotiation delivers:

- Elimination of manual file handling and version chaos
- Secure, real-time, multi-party collaboration
- Full transparency and auditability across negotiations
- Faster turnaround times and reduced operational risk
- Consistent extraction of contractual data for risk, collateral, and regulatory reporting

FON is scalable across all contract types and is designed to become the industry-leading platform for negotiating commercial and master agreements in complex, regulated environments.

## 4.4 Framesoft Artificial Intelligence (FAI)

### 4.4.1 Contracts Simplified - Risks Reduced - Insights Unlocked

Framesoft Artificial Intelligence (FAI) is an advanced AI-driven module designed to automate the understanding, verification, and operationalization of contract documents. Fully integrated into the Framesoft Contract Management (FCM) platform and the Framesoft Contract Repository (FCR), FAI enables organizations to analyze, validate, and reconcile contracts with accuracy, transparency, and full auditability.

FAI supports both individual contract analysis and large-scale batch processing, allowing archived agreements to be compared against their structured representation in FCR. This ensures that contractual documents and repository data remain aligned throughout the entire contract lifecycle.



#### 4.4.2 End-to-End AI-Supported Contract Analysis

FAI digitally ingests contracts in any format and applies Optical Character Recognition (OCR) where required. Extracted text is analyzed semantically to identify agreement type, document structure, and legal context across master agreements, amendments, annexes, and schedules.

Based on this analysis, FAI extracts agreement-type-specific data points—such as counterparty information, governing law, termination and early termination provisions, collateral and netting clauses, and regulatory classifications. These data items are mapped to the corresponding agreement type in FCR.

FAI automatically determines whether an agreement / annex already exists in FCR. If a matching agreement / annex is found, extracted data is compared against existing FCR data items. If no agreement / annex exists, a new agreement can be created. Differences, inconsistencies, and anomalies are detected, prioritized, and presented in dedicated comparison views for controlled review and decision-making.

#### 4.4.3 Interactive Verification & Explainability

FAI provides an AI Question / Chat interface that enables users to interactively verify analysis results. Users can ask contextual questions about contracts, clauses, or extracted data points, validate AI findings, and gain transparent explanations of identified deviations or risks. This human-in-the-loop approach supports trust, explainability, and regulatory acceptance of AI-driven analysis.

#### 4.4.4 Content Transformation & Enrichment

FAI supports additional AI-driven content services, including:

- Text Summarization  
Generation of concise summaries for entire contracts, selected sections, clauses, or negotiated changes, enabling faster reviews and executive decision-making.
  - Text Translation  
AI-based translation of contractual text to support multilingual contract portfolios and cross-border negotiations.
- These capabilities enhance usability while preserving the integrity of the underlying legal content.

#### 4.4.5 Multi-Model AI & Robust Decision Making

FAI can be operated in a multi-model AI configuration, where multiple AI models analyze the same document or data set in parallel. Results are consolidated using a quorum-based decision approach, increasing robustness, reducing model bias, and strengthening confidence in analysis outcomes—particularly in regulated environments.

#### 4.4.6 AI-Assisted Contract Generation

Beyond analysis and verification, FAI supports AI-assisted contract generation and regeneration. Verified data items from FCR can be applied to approved document templates, enabling the creation or update of contracts based on trusted repository data. This closes the loop between contract analysis, validation, and document production.

#### 4.4.7 Workflow Automation & Integration

FAI integrates seamlessly with FCR workflows and can automatically trigger follow-up actions based on analysis outcomes, including review processes, updates to agreement records, or compliance reporting. It operates natively within the Framesoft ecosystem, including FCR, Framesoft Document Assembly (FDA), and Framesoft Online Negotiation (FON).

#### 4.4.8 Business Value

By converting unstructured contract documents into governed, structured, and actionable data, Framesoft Artificial Intelligence (FAI) delivers:

- Significant efficiency gains and cost reductions
- Improved accuracy, reduced operational and legal risk
- Enhanced contract visibility, compliance, and data quality
- Scalable analysis across entire contract portfolios
- Strategic insights to support informed decision-making

FAI enables organizations to manage contracts with confidence—combining advanced AI capabilities with enterprise-grade governance, transparency, and control.

### 4.5 Framesoft Counterparty Interface (FCI)

The Framesoft Counterparty Interface (FCI) is an add-on module that extends the Framesoft Contract Repository (FCR) with advanced capabilities for the controlled exchange, synchronization, and governance of counterparty data between FCR and a client's central counterparty system.

FCI establishes a standardized and auditable integration layer that supports both FCR-initiated requests (e.g., creation of new counterparties in the central system) and externally driven counterparty updates, ensuring data consistency, transparency, and compliance across systems.



#### 4.5.1 Core Functional Principles

FCI supports the following fundamental interaction patterns:

- **FCR-Initiated Requests**  
FCR can request the creation or enrichment of counterparties in the client's central counterparty system (e.g., as part of a master agreement onboarding process).
- **Provision of Counterparty Information**  
Requested counterparty data, including structural and classification information, is provided back to FCR and processed in accordance with defined rules and workflows.
- **Ongoing Counterparty Updates**  
Updates originating from the central counterparty system are continuously synchronized with FCR via FCI.

#### 4.5.2 Functional Capabilities

FCI provides the following key functionalities:

- **Action Management Based on Incoming Updates**  
FCI manages and orchestrates actions triggered by:
  - ✓ Updates received from the central counterparty system, or
  - ✓ Counterparty information provided in response to FCR requests actions are executed based on predefined business rules and governance settings.
- **Automatic Processing of Non-Netting-Relevant Updates**  
Counterparty updates that do not impact on netting (e.g., address changes, contact details) are applied automatically in FCR. Relevant FCR users are notified accordingly.
- **Controlled Processing of Netting-Relevant Updates**  
Counterparty updates with potential netting implications can be:
  - ✓ Applied automatically while preserving netting-relevant attributes (e.g., *Form of Organization*), or
  - ✓ Routed through an approval workflow
 In all cases, FCR users are informed, and approval is required where netting eligibility may be affected.
- **Counterparty Hierarchy Management**

Counterparty hierarchy information (e.g., legal entities, branches, parent–child relationships, underlying principals) is provided via FCI and processed within FCR. This ensures that hierarchical structures are consistently maintained and correctly reflected for contract coverage, netting analysis, and risk-related processes.

- FCR Screen extensions & dedicated FCI screens

FCI provides dedicated FCR screen extensions and user interfaces to:

- ✓ Review incoming counterparty updates
- ✓ Monitor processing status
- ✓ Approve netting-relevant changes
- ✓ Ensure transparency and auditability

### 4.5.3 Integration Flexibility

FCI can be adapted to a client’s preferred integration and information exchange mechanisms, including but not limited to:

- Web-Services
- REST APIs
- Message Queues
- Batch-based file exchanges

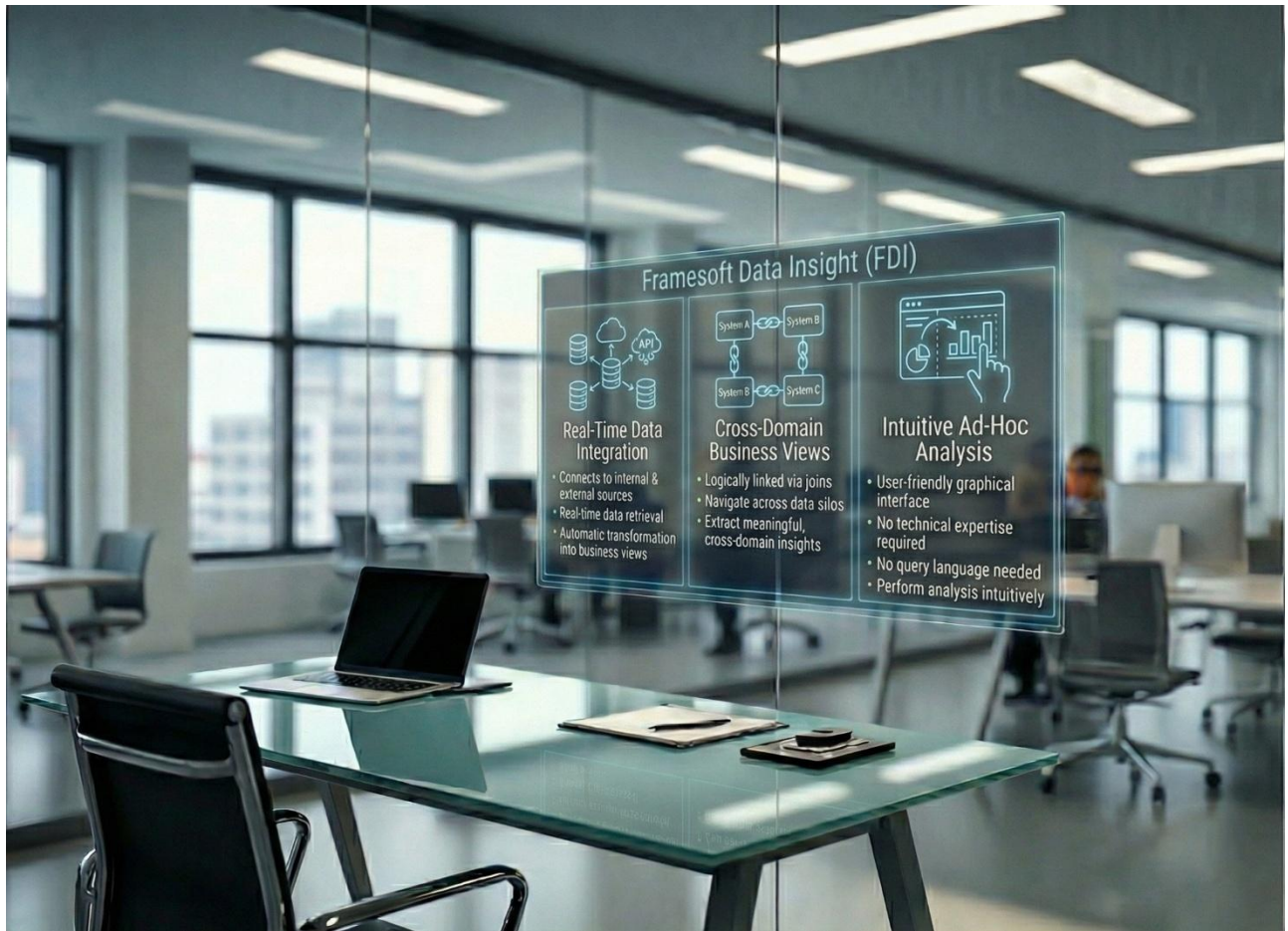
This flexibility allows seamless alignment with existing enterprise architectures and data governance models.

The Framesoft Counterparty Interface (FCI) enables controlled, auditable, and rule-based synchronization of counterparty and hierarchy data between FCR and central counterparty systems—ensuring data consistency, protecting netting integrity, and supporting efficient contract onboarding and lifecycle management.

## 4.6 Framesoft Data Insight (FDI)

FDI connects directly to internal and external data sources, retrieves data in real time, and automatically transforms it into consistent business views. These business views—originating from multiple systems—can be logically linked via joins, enabling users to navigate across data silos and extract meaningful, cross-domain insights.

Business users can perform ad-hoc analysis intuitively, without requiring technical expertise or learning a query language. All analytical capabilities are exposed through a graphical, user-friendly interface designed for immediate productivity.



#### 4.6.1 Seamless Integration

FDI is fully integrated into the Framesoft solution landscape (e.g., Framesoft Contract Repository – FCR) and can also be accessed via a browser-based application. Users benefit from a universally accessible and flexible toolset to analyze data, configure reports, and create visualizations and dashboards on the fly.

The integrated charting engine supports graphical representation of reports and analytics. In addition, reports defined in the Framesoft Report Generator (FRG) can be generated instantly as FDI reports, ensuring consistency across operational and analytical reporting.

#### 4.6.2 Data Extraction & Presentation

FDI supports powerful yet intuitive data operations, including filtering, grouping, aggregation (sum, average, etc.), and presentation in configurable pivot tables based on user-defined row and column criteria.

By leveraging FDI, organizations place business users firmly in control of their data analysis and reporting requirements. Furthermore, FDI can be combined with Framesoft Artificial Intelligence (FAI) and advanced analytics to support:

- deriving deep insights from document and contract repositories
- supporting document and contract review and creation processes
- identifying critical document sets requiring manual review

FDI is designed to maximize the value of existing data lakes and enterprise data assets, seamlessly integrating with the Framesoft tools and platforms already in use and fully leveraging the benefits of Framesoft's unique Application Framework.

### 4.7 Framesoft Advanced Security (FAS)

Framesoft Advanced Security (FAS) is an enterprise-grade security add-on that protects access to Framesoft solutions through multi-factor authentication (MFA) and modern identity provider integration. It significantly strengthens the security posture of organizations by enforcing layered authentication controls and reducing the risk of unauthorized access, credential abuse, and cyber threats.

FAS follows the principle of defense in depth, extending beyond traditional password-based authentication by combining multiple independent verification factors.



#### 4.7.1 Multi-Factor Authentication Model

FAS supports standard MFA factors, including:

- Knowledge factors  
e.g., passwords or PINs
- Possession factors  
e.g., security tokens, authenticator apps, smart cards
- Inherence factors  
e.g., biometric authentication such as fingerprint or facial recognition

This flexible model allows organizations to balance strong security requirements with a seamless user experience.

#### 4.7.2 Identity Provider Integration (SSO)

FAS integrates seamlessly with leading enterprise identity providers, including:

- Microsoft Entra ID (Azure AD)
- Ping Identity (PingID / PingFederate)
- Other

Through standards FAS enables:

- Single Sign-On (SSO) across Framesoft applications
- Centralized identity, role, and access management
- Enforcement of conditional access and MFA policies
- Secure token-based authentication and authorization

User identities, groups, and roles can be mapped directly from the identity provider to Framesoft applications, supporting role-based access control (RBAC) and regulatory compliance.

### 4.7.3 Governance, Monitoring & Compliance

FAS supports enterprise security and compliance requirements through:

- Centralized authentication and authorization
- Integration with identity provider logging and monitoring
- Secure session and token handling
- Alignment with regulatory standards in financial services and other regulated industries

Framesoft Advanced Security (FAS) delivers a robust, standards-based security framework by combining multi-factor authentication with seamless integration into enterprise identity providers such as e.g., Entra ID and Ping Identity—ensuring secure, compliant, and user-friendly access to all Framesoft solutions.

## 5 Framesoft Solutions seamlessly integrated with FCM

### 5.1 Framesoft Document Management (FDM)

Framesoft Document Management (FDM) is a software solution for professional & global content and collaboration management. FDM is designed to streamline the process of managing documents in a digital environment, enhancing both efficiency and security in an organization. FDM allows managing all types of electronic content. Content can be easily stored, tracked & searched via fuzzy / AI based full text search or by assigning keywords automatically. FDM involves a set of tools to create, manage, and store electronic documents in a centralized location, enabling easy access via multiple channels, retrieval, sharing, and collaboration.

### 5.2 Framesoft Confirmation Generator (FCG)

Framesoft Confirmation Generator (FCG) supports financial institutions in the process of the configuration, production, management, and administration of legally binding trade confirmations (short or long form) for all kinds of financial instruments (e.g., Over-The-Counter financial instruments such as interest rate, credit and equity derivatives, repo, and securities lending, etc.).

FCG supports the complete workflow associated with generating, adapting, and releasing confirmations. Confirmations can then be dispatched automatically by various Delivery Channels.