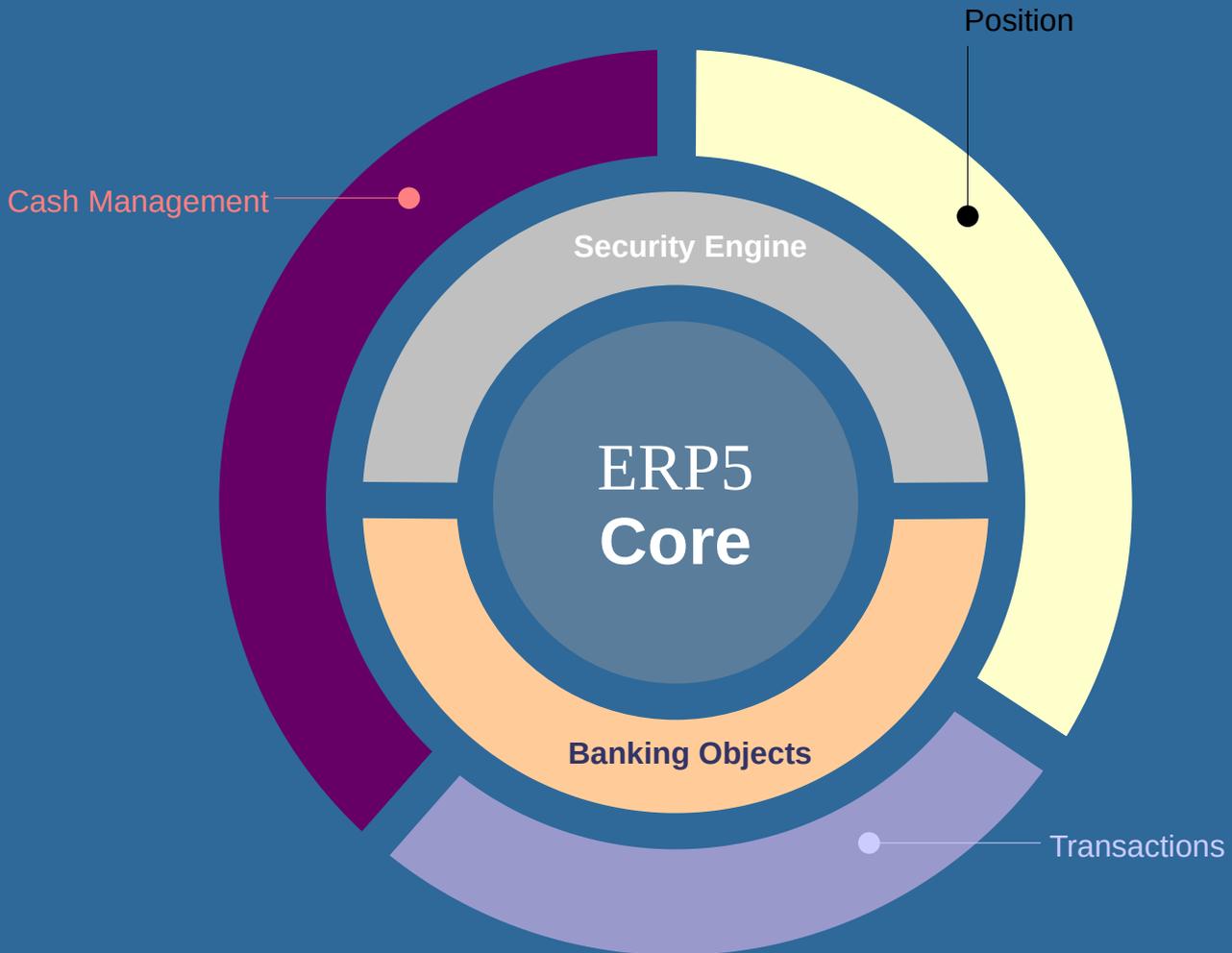


# ERP5



Open Source  
Central Banking



1. Cash Management
2. Teller Operations
3. Position Management
4. Technical Architecture
5. Open Source Software

**ERP5 Banking integrates management of banknotes and coins taking into account the vintage and place of issue in monetary unions.**

## Cash Management

### Banknotes and coins

ERP5 Banking allows to represent in detail all banknotes and coins currently in circulation or that have been previously circulating in the monetary system. Bills and coins can be classified by vintage year, issuing zone, physical appearance or by any other dimension. ERP5 Banking also makes it possible to manage monetary unions.

### Currency Issuing

ERP5 Banking manages the supply of banknotes and coins and the process of issuing currency by a workflow system. ERP5 Banking can produce reports and statistics on banknotes and coins in circulation in the monetary system.

### Movements and Vaults

ERP5 Banking allows to track the movements of banknotes and coins between agencies, the central bank as well as internally within an organization. The integrated reporting system offers a synthetic view of funds per agency, per vault, per row or per cashbox.

### Sorting and Withdrawal

ERP5 Banking manages sorting operations of banknotes and coins and serves as a tool of taking care of damaged bills or withdrawal of banknotes and coins before discontinuation.

### Provisioning

ERP5 Banking manages the supply and reporting of teller transactions. Each cash transaction on each counter can be modeled at the finest level separating incoming and outgoing cash, types of bills, foreign currency, etc.

Denomination	Vintage	Issuing Zone	Value
Coque de 1000	A	A.Tour	100 000,00
Coque de 1000	C	Neuf Entrs	50 000,00
Coque de 1000	C	A.Tour	50 000,00
Coque de 500	B	A.Tour	50 000,00
Coque de 200	C	A.Tour	20 000,00
Coque de 100	T	A.Tour	10 000,00
Accessoirs Pièces de 5000	*		0,00
Pièce de 500	NeufDefrad		5 000,00
Accessoirs Pièces de 500	*		0,00
Pièce de 200	NeufDefrad	A.Tour	2 000,00
Pièce de 200	NeufDefrad	A.Tour	2 000,00
Pièce de 200	C	A.Tour	1 000,00
Pièce de 200	B	A.Tour	1 000,00
Pièce de 200	T	Reste de la circulation	4 000,00
Pièce de 100	NeufDefrad		1 000,00
Pièce de 50	NeufDefrad	A.Tour	500,00
Pièce de 25	NeufDefrad	A.Tour	250,00
Pièce de 10	NeufDefrad	A.Tour	100,00
Pièce de 5	NeufDefrad	A.Tour	50,00
Accessoirs Pièces de 2	NeufDefrad		0,00
Pièce de 1	NeufDefrad	A.Tour	100,00

Online input of banknotes

**ERP5 Banking covers all the needs of teller banking in relation with the funds and positions management**

## Teller Operations

### Counters

ERP5 Banking allows you to manage the counters of each agency as part of a process of opening and closing in everyday accounting modeled by workflows. Every counter can be linked to a subset of specific banking operations and to several cash transactions.

### Interbank Transfers

ERP5 Banking manages internal as well as interbank transfers using the SWIFT network.

### Numbered Expressions

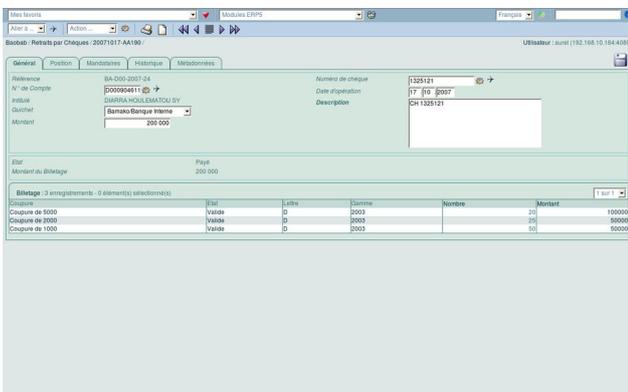
ERP5 Banking includes a management module of numbered expressions and cheque books. This application covers the entire life cycle: client requests, orders, delivery, handing-over to the client, utility, loss, etc. For example each check may be individually tracked and linked to a specific operation with impact of position.

### Withdrawals and Payments

ERP5 Banking can manage operations dealing with payments and withdrawals of cash in relations to funds and positions.

### Foreign Currencies

ERP5 Banking is a multi-currency application, capable of taking into account all currency exchange rates for everyday accounting needs. ERP5 Banking provides modules for transfers, payments or withdrawals of foreign currencies as well as a module of exchange rates.



*Check withdrawal operation*

**ERP5 Banking incorporates a position archival management engine capable of interfacing in real-time with external operations**

## Position Management

### Compensation

ERP5 Banking allows to manage the position of member banks of a monetary system and handle compensation operations between banks. ERP5 also allows to integrate external operations in real-time with an impact on the position of the accounts.

### Automatic Teller Machines (ATM's)

ERP5 Banking works with ATM's by providing in real-time the position of an account and by taking into consideration the real-time cash withdrawals carried out remotely

### Journals

ERP5 Banking offers a reporting model that is capable to produce real-time detailed journals of accounts with an archived history of the position of each account.

### Containment

ERP5 Banking allows to manage containment operations on accounts in the event of a check incident or for any other reason. The containment will affect the status and position of the account in real time.

### Accounting Translation

All transactions performed in ERP5 can be translated into accounting form in real-time to fit under external accounting regulations. ERP5 has already been synchronized with the accounting modules of SAP or Oracle's Applications. ERP5 also offers a general, analytical and budgetary accounting that is already deployed in the public sector.

Type	Référence	Date de Debit	Description
Incident	BA 400 2000-145	2008-01-19	Erreur au gestionnaire caisses
Virement d'Espèces (CR)	BA 400 2000-19	2008-01-09	Erreur au guichet
Virement d'Espèces (CR)	BA 400 2000-08	2008-01-08	Erreur au guichet
Prélèvement gros virement	BA 4000001 2000-6	2008-01-09	Erreur au gestionnaire de caisses
Brainz Mobile	BA 400 2000-284	2007-05-08	Erreur au guichet
Virement d'Espèces (CR)	H020020P102	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P103	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P104	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P105	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P106	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P107	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P108	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P109	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P110	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P111	2007-12-21	Membre de Correction
Virement d'Espèces (CR)	H020020P112	2007-12-19	Erreur au guichet
Virement d'Espèces (CR)	H020020P113	2007-12-21	Membre de Correction
Virement d'Espèces (CR)	H020020P114	2008-01-09	Membre de Correction
Virement d'Espèces (CR)	H020020P115	2008-01-08	Erreur au chef comptable
Virement d'Espèces (CR)	H020020P116	2008-01-09	Membre de Correction

List of ongoing operations

*The innovative and flexible architecture of ERP5 Banking is the key to success of product's deployment into the banking sector.*

## Technical Architecture

### Linux Cluster

ERP5 Banking is based on a Linux Cluster architecture. With its modern design and leverage of advanced programming technologies, ERP5 Banking is able to distribute transactions over 100s servers, achieving the performance of a large mainframe with entry-level hardware.

### Web SOA

ERP5 Banking is designed around a Web based Service-oriented Architecture. A simple Web browser is enough to use ERP5. HTML and AJAX code were optimized for use on VSAT or VPN networks. Thus, ERP5 can be deployed at any centralized network even at low bandwidth and high latency.

ERP5 features are accessible in a secured manner from external application through APIs based on SOAP or XML-RPC standards. Therefore, ERP is integrate seamlessly in environments based on Java, Oracle, SAP, etc.

### Python / Zope / MySQL

ERP5 Banking is based on open source technologies such as Zope, Python and MySQL. Those technologies for example, are largely used by Google for their infrastructure. MySQL Cluster meanwhile, has been deployed for example by telecommunication operators or for large travel reservation systems.

### ERP5 Security

The component “ERP5 Security” offers the most advanced model of applicative security on the market. It allows to configure the dynamic safety regulations and adapt ERP5 Banking to the most sophisticated and complex regulation requirement. Those features justify the choice of using ERP5 in the banking or military.

### BAOBAB

ERP5 Banking is based on the “BAOBAB” model (Banking Object Abstraction) to unify together banking and cashier operations. This major innovation allows to customize ERP5 to the new processes or new environments for implementation much more quickly and at lower cost than with traditional modeling approaches.

***Being free and open source software, ERP5 offers its users a level of control and of flexibility far superior to propriety alternatives and at much lower cost.***

## Open Source

### Professional Services

Nexedi and its partners offer professional consulting services, project management and engineering to ensure the success in implementation of ERP5 in your bank. ERP5 has been already been deployed by Nexedi in central banking and is currently being used in 8 countries for managing the monetary system of over 80 million people.

### Knowledge Transfer

The major advantage of free software such as ERP5 is that it allows financial institutions to become autonomous and no longer depend on software publisher's goodwill. It is about a strategic solution justified by the question of sovereignty in the case of central bank or questions regarding control of the value chain in case of private banks. As part of the service, Nexedi will work to help financial institutions acquire the skills and knowledge needed to take control of ERP5 source code and get on the road leading to autonomous future.

### Source Code

ERP5 Banking comes with full access to the source code. Generic modules of ERP5 can be downloaded through Internet. The source code is subject to review by a community of developers to improve our code on a continuous basis. The development of specific modules is kept secret to protect our customers.

### Quality Assurance

The process of deployment of ERP5 includes quality assurance by rigorous product testing. This process allows to control any setbacks in quality of application's configurations. This also tends to increase the productivity of the engineers by a factor of 10 on large projects.

### Extensions

ERP5 cover over 500 modules, the majority of needs of managing and financial institutions. This functional cover can be extended as needed to cover specific functions or new modes of integration.

...to learn more



[www.erp5.com](http://www.erp5.com)

www.erp5.com web site includes extensive information concerning the coverage of ERP5 functional and technical architecture



[info@nexedi.com](mailto:info@nexedi.com)

For more information about our service offerings, feel free to contact Nexedi by electronic mail



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You can also contact our knowledgeable consultants and specialist in the banking sector by phone

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