

PSD2 API Solution



About Salt Edge

Salt Edge is an innovative FinTech company which delivers best-in-class Financial Solutions, helping Banks take their competitiveness to higher levels in an API driven banking landscape.

CUSTOMERS TRANSACTIONS

COUNTRIES

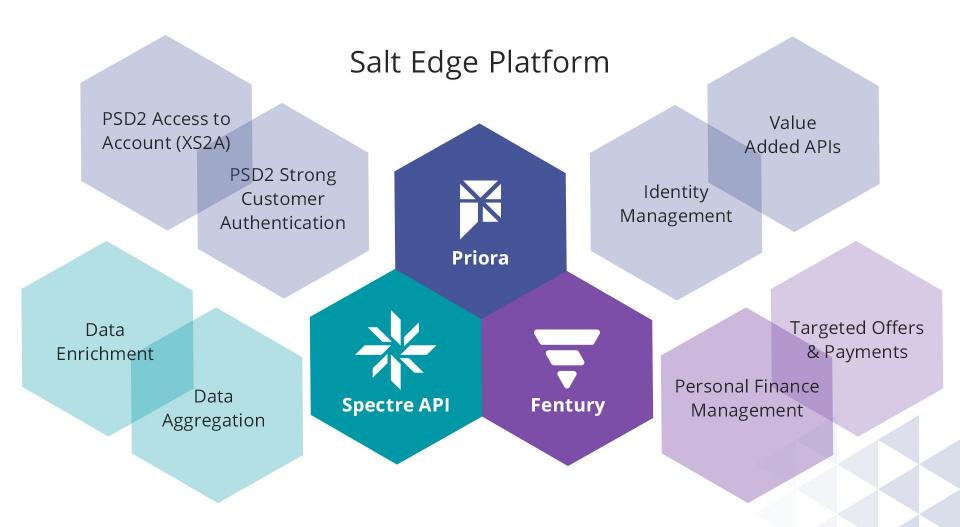
CLIENTS

56

74

250 000

130 MILLION



PSD2 — a Tipping Point

Mobile / Internet

New customer modes of accessing and transacting financial products and services

PSD2

FinTech / FinApps

Evolving Banking
Landscape and new
FinTechs emerging
on the market

Why PSD2? It's about the consumer



Protect consumers and provide transparency of fees



Encourage lower prices for payment (Interchange fees already capped)



Make payments safer and more secure with Strong Customer

Authentication



Introduce new market entrants to create a **level playing field**

PSD2: a game changer

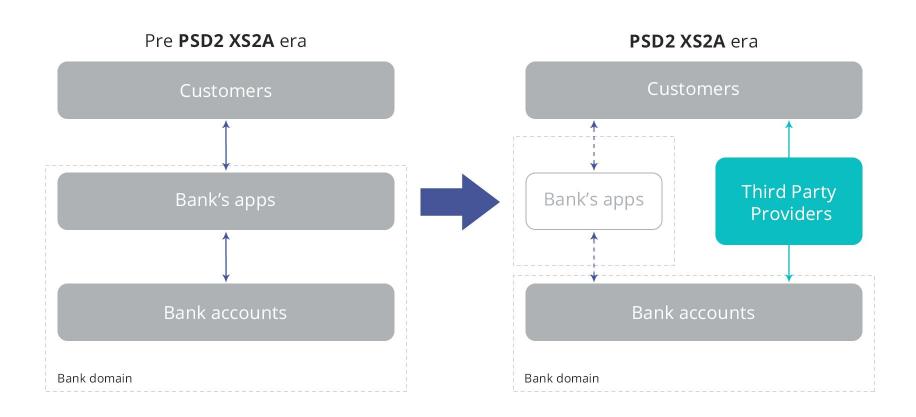
AISP: Account Information
Service Providers

Access to accounts and transactions data in read-only mode

PISP: Payment Initiation
Service Providers

Possibility to initiate payments directly from the account

Technically, what does this mean?



The World of Banking and Finance is changing...rapidly

Compliance



- Ever growing regulatory pressure since 2008
- Liquidity availability is a growing issue
- Increasing traditional and new competition emerging



Security

- Growing cyber risks
- 'Hackers' get smarter
- Stress test
- Core legacy technology that is not agile

Profitability



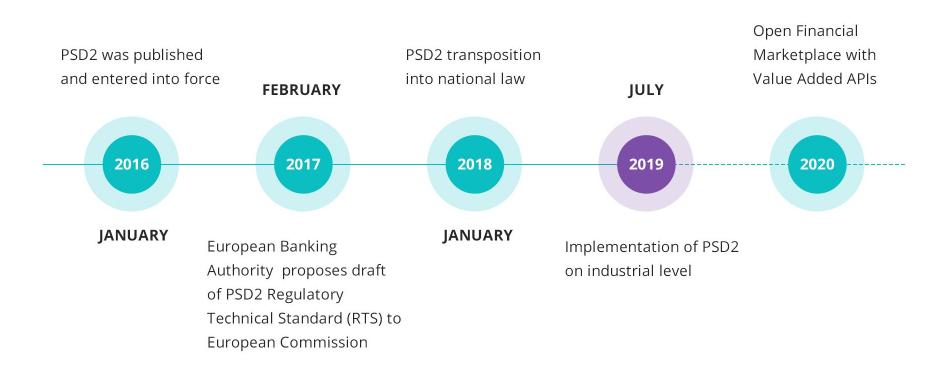
- Not making enough profits for shareholders
- Interest rates remain low, but economic uncertainty is higher than ever
- Traditional business model is no longer sustainable

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Consumers

- Changing behaviour and devices
- Consumer expectations are rising all the time
- Bank brand is vulnerable to new competition
- Millennials

PSD2 Timeline: many changes in a short time



What the bank should consider for **PSD2** compliance



People

- PSD2 experts
- Financial advisors
- Technical writers
- Risk assessment
- Setup specialists
- Developers
- Testers
- Customer support
- TPP support



Technologies

- Strong customer authentication
- Testing environments
- Fraud prevention system
- Information Security
- AISP and PISP workflows
- Software architecture
- API gateway
- Data Recovery
- Role-based access
- Tools for bank personnel
- Monitoring and Analytical tools



Processes

- Maintenance workflow and control
- Technical documentation
- Product updates
- Support of external APIs 24/7
- Secure communication channels
- Third Party Providers verification
- Security audit
- Logging
- Alerts and notifications
- Complaints handling
- Dispute resolution

What's your strategy within PSD2 era?



Back office supplier

Spend money to help someone else intermediate between you and your customer and build front-end relationships with them

The bank has to define its role in a PSD2 driven open economy:



Owner of the customer

Embrace open source technology opportunities to provide your customers with innovative services which will satisfy all their needs

Strategic Options

1. Comply with **PSD2** requirements

2. Facilitate & **Monetize Access**

3. Provide Data **Insights & New Services**

4. Expand to Open Financial Marketplace





- Enable data access beyond law requirements (ATM & branch maps, currency exchange, etc)
- Monetize additional APIs. such as digital identification, opening accounts and cards, currency exchange, insurances, bill payments, etc



- Personalize customer experience with Fentury
- Partner up with FinTech companies to get better: categorization, transaction localization, credit scoring, fraud prevention, social and behavioral analytics, etc



- Collaborate with merchants and consumers to provide the best possible experience
- Cross-sell and upsell bank and partners' products and services
- Expand service offerings to address non-financial needs and create new revenue streams

- Access to Account -XS2A
- Strong Customer Authentication - SCA
- Transparency of Fees

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PRIORA

Value Added APIs

PSD2 API

Data Transformation

SPECTRE | FENTURY

Targeted Campaigns

Personal Finance Manager

Data Enrichment

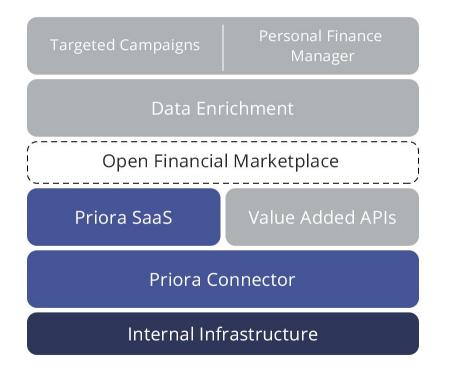
Step 1: Comply with PSD2

Data Enrichment Open Financial Marketplace Priora SaaS Value Added APIs **Priora Connector** Internal Infrastructure

Prepare IT infrastructure for PSD2

- Consolidation interface of accounts' data outside the core banking system
- Core banking system firewalled against any type of external attacks
- Fully featured Testing Environment with well Documented processes of integration
- Salt Edge is handling scalability, fault tolerance and security updates of the APIs
- Custom Extension Point for integration of monitoring, logging and anti-fraud tools

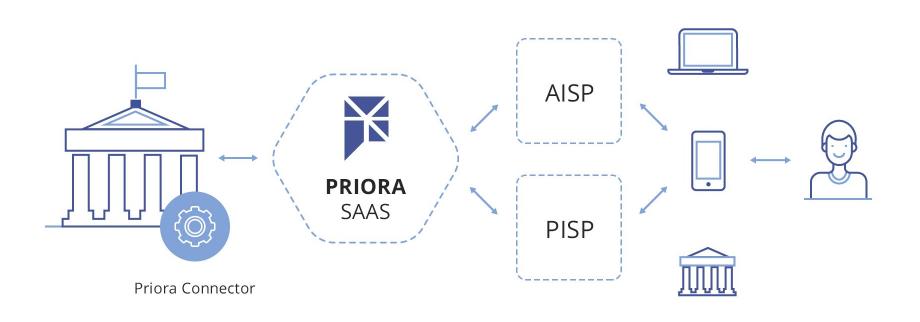
Step 1: Comply with PSD2



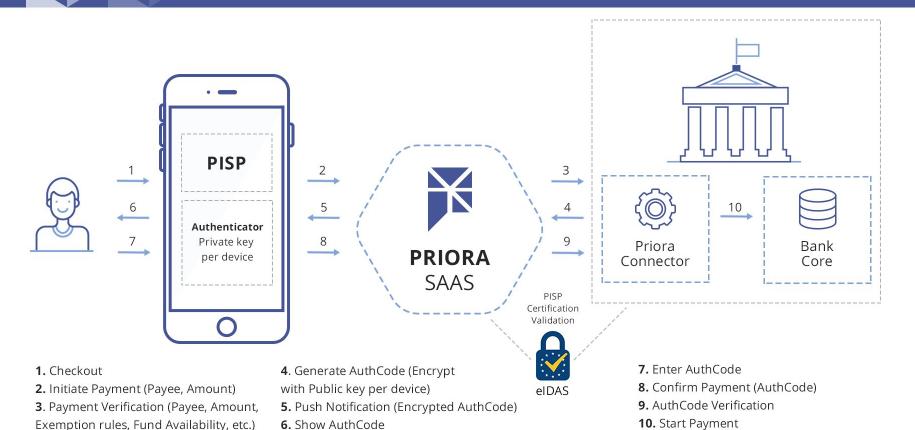
Ensure PSD2 compliance with Priora APIs

- Unified cloud system serving PSD2 XS2A API
- Priora Authenticator mobile apps for Authentication Code confirmation
- Well documented Testing Environments
- Payment exception handling rules and White listing merchant support with end-user approval
- Maintenance and necessary updates related to legislation, security changes

Priora Solution



Technical Workflow of Priora Solution

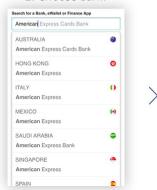


AISP Workflow Example

1. Connect a bank to a wealth management app



2. Choose bank

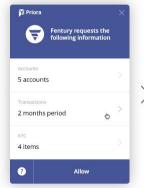


3. Strong Authentication

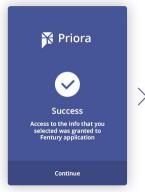


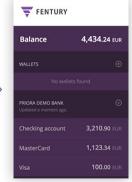


4. Set permissions

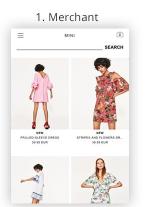


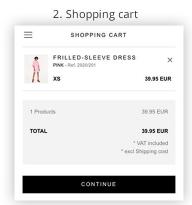
5. Confirmation & return to the app

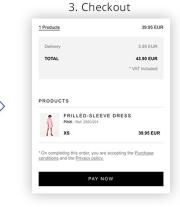


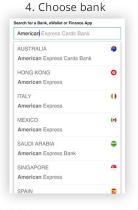


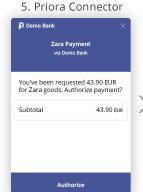
PISP Workflow Example



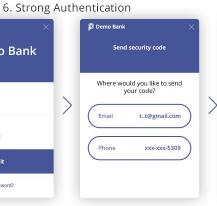


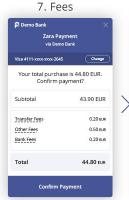




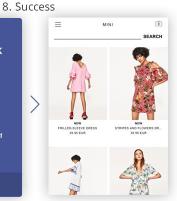












Step 2: Facilitate & Monetize Access

Personal Finance Data Enrichment Open Financial Marketplace Value Added APIs Priora SaaS Priora Connector Internal Infrastructure

Create Value Added APIs

- Digital Identification of Customers
- Seamless opening of cards and accounts (savings, loan, investments, deposits, credits, etc)
- Collaboration with third parties on combined Value Added APIs (currency exchange, insurances, bill payments, invoice factoring, etc)
- Monetization and invoicing on custom value added APIs

PSD2: Combine the Best Third Party Services

With PSD2 banks gain the possibility to provide the customer with a seamless end-to-end journey, which combines recommendation, analytics, payments, product choice, delivery, ongoing support services and the best of third party features in a single app.



Provide and Consume Third Party Services



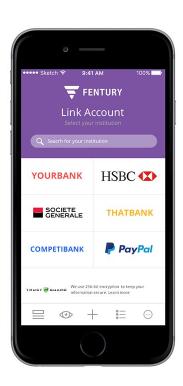
Step 3: Provide Advice & New Services

Personal Finance Data Enrichment Open Financial Marketplace Priora SaaS Value Added APIs **Priora Connector** Internal Infrastructure

Data Enrichment with Spectre API

- Data aggregation from banks, e-wallets, telecommunications and other types of providers
- Seamless Integration with any online and core banking systems
- Enrich data with additional information:
 - + categorization (merchant type, category)
- + payee identification (name, address, phone)
- + location mapping (where, when, and how often customers make purchases)

Competing after PSD2: Personalized Digital Banking





Spectre Data Aggregation API allows to import any type of financial data - from account balances to transactions details:

- Savings
- Credit, Debit cards
- Loans and Mortgages
- Insurances
- Investment
- Checking
- E-wallets

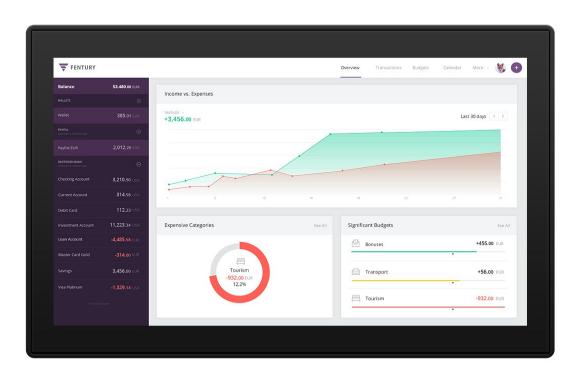
Step 3: Provide Advice & New Services

Personal Finance **Targeted Campaigns** Manager Data Enrichment Open Financial Marketplace Priora SaaS Value Added APIs Priora Connector Internal Infrastructure

Personalize User Experience with Fentury

- Build a personalized digital banking experience powered by Fentury Solution
- 360° view of customers' entire financial life (including external accounts)
- Using Big Data and Data Enrichment:
- + Identify current needs of your customers
- + Predict customer behaviour scenarios and future needs
- Target specific customers with personalized offers which perfectly match their profile

Competing after PSD2: Personalized Digital Banking



Bring Value to your customers by providing finance management tools:

- Budgeting
- Goals
- Financial Calendar
- Advanced Reports
- Advice & Notifications

Example of digital banking powered by Salt Edge View demo at www.fentury.com

PSD2 Era: Unlock the Value of Financial Data



Main Priora Features

Current:

- AISP and PISP flows
- Strong Customer Authentication
- Authentication Code flow and mobile apps
- Testing Environment and Documentation
- Third Party verification eIDAS
- Whitelisted Merchants
- Exemptions Handling
- Monitoring tools
- Triggers and Alerts
- Technical Support
- End Customer Management flow
- Bank Roles (i.e. support, engineer, admin)

Future:

- Open Standard for Financial APIs
- Digital Identification
- Value Added APIs
- APIs Monetization
- APIs Invoicing
- Open API Marketplace

PSD2 roadmap based on Salt Edge Platform



Get Started with PSD2 Implementation

Define your strategy: Choose between simply being compliant with PSD2 or taking advantage of all the possibilities it opens

Be ready: Prepare the IT infrastructure and ensure PSD2 compliance before the time comes

Personalize User Experience: Stay ahead of the competition by providing your customers with valuable daily advice based on advanced analysis of their data

FinTech collaboration & Data enrichment: Work with FinTech players to diversify the possibilities of your non-core features

Time is of the essence: The deadline is closer than you think, choose a plan of action and start acting on it now!

3 days innovation workshop with Salt Edge Team



In our **3-day innovation workshop** you get to work with Salt Edge top business development and technical people, our **compliance and security** experts to help you **better understand the PSD2** implementation strategies. The workshop covers two main aspects:

- 1) **Business** what impact PSD2 will have and how to choose a winning strategy.
- 2) **Technical** the Priora Connector implementation and the establishment of workflows.

Request the workshop at sales@saltedge.com

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