Documentación

MPR Express Checkout

Integracion avanzada de Stripe para PrestaShop 1.7.8+ que proporciona checkout express desde cualquier pagina. Los clientes completan compras instantaneamente usando billeteras digitales, tarjetas y metodos de pago regionales sin el flujo de checkout tradicional.

Version: 1.7.3 **Author:** mypresta.rocks **License:** Commercial **PrestaShop Compatibility:** 1.6 - 1.7.8.11+

Tabla de contenidos

Descripcion general

MPR Express Checkout transforma la experiencia de comercio electronico al permitir compras con un clic desde paginas de productos, carrito y checkout. Basado en la API Payment Intents de Stripe, soporta 31+ metodos de pago incluyendo billeteras digitales, transferencias bancarias regionales y soluciones Buy Now Pay Later.

El modulo presenta un modal de checkout unificado que consolida el registro de clientes, la gestion de direcciones, la seleccion de envio y el procesamiento de pagos en una unica interfaz optimizada, reduciendo significativamente el abandono del carrito y aumentando las conversiones moviles.

Funciones principales

Experiencia Express Checkout

- **One-Click Purchase**: Buy directly from product pages, cart, or any page type
- **Unified Modal**: Single modal interface for complete checkout flow
- **Smart Cart Management**: Automatic cart creation, merging, and recovery
- **Real-Time Validation**: Instant voucher validation and shipping calculation
- **Mobile Optimized**: Native wallet integration (Apple Pay, Google Pay, Samsung Pay)

Procesamiento de pagos

- **Stripe Integration**: Full Stripe Payment Intents API support
- **31+ Payment Methods**: Wallets, cards, bank transfers, BNPL, and manual methods
- **Saved Cards**: Secure card storage for repeat purchases

- **Payment Recovery**: Abandoned payment cart recovery system

- **Webhook Processing**: Real-time payment status updates

Experiencia del cliente

- **Social Login**: Google, Facebook, Apple, Microsoft authentication

- **Guest Checkout**: Complete purchases without account creation

- **Address Autocomplete**: Google Places API integration

- **VAT Validation**: VIES API integration for EU businesses

- **Multi-Language**: Translations for 7+ languages (EN, PL, DE, FR, ES, IT, NL)

Funciones B2B

- **Company Accounts**: Multi-user company account support

- **VAT Exemption**: Tax exemption handling for qualifying businesses

- **Purchase Orders**: PO number support for credit account payments

- **Trade Credit**: Credit account payment method

- **Quote/RFQ System**: Request for Quote workflow with negotiation support

Herramientas de administracion

- **Dashboard**: Transaction overview and performance metrics

- **Transaction Management**: View and manage all payment transactions

- **Refund Processing**: Full and partial refund support

- **Charge Details**: Complete payment and fee breakdown

- **Quote Management**: Create, edit, and manage customer quotes

- **Social Customer Tracking**: Monitor social login registrations

- **Shipping Service Config**: Configure carriers with transit times

- **Integrity Checker**: Validate module configuration and database

Metodos de pago

El modulo soporta **31 metodos de pago** en multiples categorias, cada uno con iconos dedicados y traducciones localizadas.

Billeteras y tarjetas (8 metodos)

Billeteras digitales y pagos con tarjeta con autorizacion instantanea:

1. **Google Pay** - Google digital wallet (Chrome browser)
2. **Apple Pay** - Apple digital wallet (Safari/iOS)
3. **Card** - Visa, Mastercard, Amex, JCB, Cartes Bancaires
4. **PayPal** - PayPal wallet and account payments
5. **Amazon Pay** - Amazon account payments
6. **Link** - Stripe Link (saved payment details)
7. **Samsung Pay** - Samsung digital wallet
8. **Revolut** - Revolut digital wallet

Metodos bancarios europeos (9 metodos)

Metodos de pago bancarios regionales populares en Europa:

9. **iDEAL** - Netherlands bank transfer (EUR only)
10. **Bancontact** - Belgian bank payment (EUR only)
11. **BLIK** - Polish mobile payment (PLN only)
12. **Przelewy24** - Polish online banking (PLN, EUR)
13. **EPS** - Austrian bank transfer (EUR only)
14. **Multibanco** - Portuguese payment system (EUR only)
15. **Twint** - Swiss mobile payment (CHF only)
16. **Satispay** - Italian mobile payment (EUR only)
17. **MobilePay** - Nordic mobile payment (DKK, NOK, SEK, EUR)

Metodos de pago asiaticos (5 metodos)

Metodos de pago populares en los mercados asiaticos:

18. **Alipay** - Chinese digital wallet (CNY, EUR, GBP, USD)

19. **WeChat Pay** - Chinese mobile payment (CNY, EUR, GBP, USD)

20. **Kakao Pay** - Korean mobile payment (KRW only)

21. **Naver Pay** - Korean payment platform (KRW only)

22. **Payco** - Korean digital wallet (KRW only)

Buy Now Pay Later (4 metodos)

Soluciones de pago a plazos y diferido:

23. **Klarna** - BNPL in 11 currencies (EUR, USD, GBP, SEK, NOK, DKK, CHF, PLN, AUD, NZD, CAD)

24. **Afterpay / Clearpay** - BNPL in 6 currencies (USD, CAD, AUD, NZD, GBP, EUR)

25. **Alma** - French BNPL (EUR, 10 European countries)

26. **Billie** - B2B BNPL (EUR, 7 European countries)

Transferencias bancarias y debito directo (1 metodo)

Pagos directos desde cuenta bancaria:

27. **SEPA Debit** - European direct debit (EUR only)

Metodos manuales/offline (4 metodos)

Metodos de pago tradicionales procesados offline:

28. **Bank Transfer** - Manual bank wire transfer

29. **Cash on Delivery (COD)** - Pay on delivery

30. **Credit Account** - Trade account with credit terms

31. **Store Pickup** - Pay on pickup at physical location

Sistema de temas de iconos

El modulo incluye un sistema de iconos completo con **8 variantes de tema** para combinar con cualquier diseno de tienda:

Temas de iconos (4 esquemas de colores)

1. **Light Mode** - Light backgrounds with dark text

2. **Dark Mode** - Dark backgrounds with light text

3. **Light Accent** - Light backgrounds with brand color accents

4. **Dark Accent** - Dark backgrounds with brand color accents

Formas de iconos (2 proporciones)

1. **Rectangle** - Wide format for checkout pages and payment options lists

2. **Square** - Compact format for payment buttons and unified modal

Configuracion de iconos

- **Total Icon Variants**: 31 methods × 4 themes × 2 shapes = **248 SVG icons**
- **Path Structure**: `views/img/payment-icons/{shape}/{theme}/{method}.svg`
- **Dynamic Theming**: Icons loaded based on admin configuration
- **Card Brand Icons**: Separate icons for Visa, Mastercard, Amex, JCB, Cartes Bancaires

Rutas de ejemplo:

```
views/img/payment-icons/rectangle/light-mode/google_pay.svg
views/img/payment-icons/square/dark-accent/apple_pay.svg
views/img/payment-icons/rectangle/light-mode/visa.svg
```

Arquitectura

Estructura de directorios

```
mprexpresscheckout/
├── mprexpresscheckout.php        # Main module class (3,600+ lines)
├── config.xml                    # Module metadata
├── composer.json                 # PHP dependencies
├── package.json                  # Node.js build tools
├── Gruntfile.js                  # Grunt task configuration
├── gulpfile.js                   # Gulp build pipeline
|
├── src/                          # Namespaced PHP classes
|   ├── Classes/                  # Core business logic (30+ classes, 28K+ lines)
|   |   ├── MPRExpressCheckoutConfig.php         # Configuration management
|   |   ├── MPRExpressCheckoutCart.php           # Virtual cart handling
|   |   ├── MPRExpressCheckoutTransaction.php    # Payment transactions
|   |   ├── MPRExpressCheckoutCharge.php         # Stripe charge details
|   |   ├── MPRExpressCheckoutRefund.php         # Refund processing
|   |   ├── MPRExpressCheckoutPaymentOption.php  # Payment method config
|   |   ├── MPRExpressCheckoutPaymentMethod.php  # Saved payment methods
|   |   ├── MPRExpressCheckoutOrderProcessor.php # Order creation logic
|   |   ├── MPRExpressCheckoutAddress.php        # Address management
|   |   ├── MPRExpressCheckoutSocialAuth.php     # Social login (Google, FB, Apple, MS)
|   |   ├── MPRExpressCheckoutCustomer.php       # Customer handling
|   |   ├── MPRExpressCheckoutShippingService.php # Carrier configuration
|   |   ├── MPRExpressCheckoutSession.php        # Session tracking
|   |   ├── MPRExpressCheckoutWebhookEvent.php   # Stripe webhook handler
|   |   ├── MPRExpressCheckoutVatValidator.php   # EU VAT validation
|   |   ├── MPRExpressCheckoutSMS.php            # SMS notifications
|   |   ├── MPRExpressCheckoutIntegrity.php      # System integrity checks
|   |   ├── MPRExpressCheckoutAdminOrder.php     # Admin order creation
|   |   ├── MPRExpressCheckoutDbQuery.php        # Database query builder
|   |   ├── MPRExpressCheckoutErrorHandler.php   # Error handling
|   |   ├── MPRExpressCheckoutTranslations.php   # Translation management
|   |   ├── MPRExpressCheckoutQuote.php          # Quote management (ObjectModel)
```

```
|   |   ├── MPRExpressCheckoutQuoteItem.php        # Quote line items (ObjectModel)
|   |   ├── MPRExpressCheckoutQuoteStatus.php      # Quote status workflow (ObjectModel)
|   |   ├── MPRExpressCheckoutQuoteMessage.php     # Quote messaging (ObjectModel)
|   |   ├── MPRExpressCheckoutQuoteHistory.php     # Quote audit trail (ObjectModel)
|   |   └── MPRExpressCheckoutQuotePdf.php         # Quote PDF generation
|   |
|   ├── Config/                      # Configuration classes
|   |   ├── PaymentMethodsConfig.php        # All payment method definitions
|   |   └── PaymentMethodsTranslations.php   # Multi-language translations
|   |
|   └── Traits/                      # Reusable trait components
|       ├── AdminController/         # Admin list management traits
|       ├── Compatiblility/         # PrestaShop compatibility
|       ├── ObjectModel/            # ORM extensions
|       └── Associations/           # Database associations
|
├── controllers/                    # PrestaShop controllers
|   ├── front/                      # Frontend controllers (20 controllers)
|   |   ├── Checkout.php            # Main checkout modal
|   |   ├── Processing.php          # Payment processing
|   |   ├── Ajax.php                # AJAX endpoint handler
|   |   ├── Webhook.php             # Stripe webhook receiver
|   |   ├── PaymentStatus.php       # Payment status page
|   |   ├── Recover.php             # Cart recovery
|   |   ├── Cards.php               # Saved cards management
|   |   ├── Login.php               # Customer login
|   |   ├── Register.php            # Customer registration
|   |   ├── ForgotPassword.php      # Password recovery
|   |   ├── Account.php             # Customer account
|   |   ├── Identity.php            # Personal information
|   |   ├── Address.php             # Single address management
|   |   ├── Addresses.php           # Address book
|   |   ├── Cart.php                # Cart management
|   |   ├── Quotes.php              # Customer quotes list
|   |   ├── Quote.php               # Single quote detail view
|   |   ├── QuoteRequest.php        # Quote request form
|   |   └── QuotePdf.php            # Quote PDF download
```

```
│   │
│   └── admin/                     # Backend controllers (16 controllers)
│       ├── AdminMPRExpressCheckoutDashboardController.php
│       ├── AdminMPRExpressCheckoutConfigController.php
│       ├── AdminMPRExpressCheckoutTransactionsController.php
│       ├── AdminMPRExpressCheckoutChargesController.php
│       ├── AdminMPRExpressCheckoutRefundsController.php
│       ├── AdminMPRExpressCheckoutPaymentOptionsController.php
│       ├── AdminMPRExpressCheckoutPaymentMethodsController.php
│       ├── AdminMPRExpressCheckoutSocialCustomersController.php
│       ├── AdminMPRExpressCheckoutCartsController.php
│       ├── AdminMPRExpressCheckoutSessionsController.php
│       ├── AdminMPRExpressCheckoutShippingServiceController.php
│       ├── AdminMPRExpressCheckoutQuotesController.php
│       ├── AdminMPRExpressCheckoutQuoteStatusesController.php
│       ├── AdminMPRExpressCheckoutIntegrityController.php
│       └── AdminMPRExpressCheckoutAjaxController.php
│
├── views/                         # Frontend assets and templates
│   ├── templates/                 # Smarty templates
│   │   ├── front/                 # Frontend templates
│   │   ├── admin/                 # Admin templates
│   │   ├── hook/                  # Hook templates
│   │   └── _partials/             # Reusable template components
│   ├── js/                        # JavaScript (compiled)
│   ├── css/                       # Stylesheets (compiled)
│   └── img/                       # Images and icons
│       ├── payment-icons/         # Payment method icons (248 SVG files)
│       │   ├── rectangle/         # Wide format icons
│       │   │   ├── light-mode/
│       │   │   ├── dark-mode/
│       │   │   ├── light-accent/
│       │   │   └── dark-accent/
│       │   └── square/            # Square format icons
│       │       ├── light-mode/
│       │       ├── dark-mode/
│       │       ├── light-accent/
```

```
|         |         └── dark-accent/
|         ├── buttons/              # Express checkout button graphics
|         └── options/              # UI element icons
|
├── sources/                        # Source files for build
|    ├── js/                        # JavaScript source files
|    └── css/                       # SCSS source files
|
├── sql/                            # Database installation
|    ├── install.php                # Table creation (28 tables)
|    └── uninstall.php              # Table cleanup
|
├── upgrade/                        # Version upgrade scripts
├── translations/                   # Language files
├── mails/                          # Email templates
├── vendor/                         # Composer dependencies
└── node_modules/                   # NPM build dependencies
```

Esquema de base de datos

El modulo crea **34 tablas de base de datos** para gestionar todos los aspectos del checkout express:

Tablas principales

`mprexpresscheckout_cart` - Virtual cart storage

- Stores express checkout sessions with customer data, addresses, and selections

- Includes cart recovery data with expiry dates

- Tracks page context (product, cart, checkout, etc.)

`mprexpresscheckout_config` - Module configuration

- Key-value storage with context support (shop, language, group)

- Multilingual configuration via `_lang` table

`mprexpresscheckout_payment_options` - Payment method configuration

- Payment method settings and availability

- Context-based restrictions (country, currency, browser, page type)

- Position ordering and Stripe enablement flags

Tablas de transacciones y pagos

`mprexpresscheckout_transactions` - Payment transactions

- Links virtual carts to orders

- Transaction type tracking (express, checkout, terminal, invoice, etc.)

- Payment state management and error tracking

`mprexpresscheckout_charges` - Stripe charge details

- Payment Intent and Charge IDs

- Fee calculation and exchange rates

- Risk assessment scores

- Receipt URLs and payment method details

`mprexpresscheckout_refunds` - Refund records

- Full and partial refund tracking

- Employee attribution

- Refund state and reason tracking

`mprexpresscheckout_payment_methods` - Saved payment methods

- Stored card details (last4, brand, expiry)

- Links to Stripe Customer IDs

Tablas de clientes y Social Login

`mprexpresscheckout_customers` - Stripe customer mapping

- Links PrestaShop customers to Stripe Customer IDs

- Email tracking for guest customers

`mprexpresscheckout_social_customers` - Social authentication

- Google, Facebook, Apple, Microsoft account links

- Platform user IDs and profile pictures

`mprexpresscheckout_social_logins` - Login tracking

`mprexpresscheckout_social_registrations` - Registration tracking

Tablas de envio y entrega

`mprexpresscheckout_shipping_service` - Carrier configuration

- Transit time estimates (min/max days)

- Display modes and position ordering

- Separate activation flags for express checkout and OPC

`mprexpresscheckout_shipping_service_lang` - Carrier translations

`mprexpresscheckout_shipping_service_payment_options` - Payment method restrictions

per carrier `mprexpresscheckout_shipping_service_external_modules` - Third-party carrier

module integration

Tablas de detalle del carrito virtual

`mprexpresscheckout_cart_customer` - Customer information

`mprexpresscheckout_cart_product` - Cart products `mprexpresscheckout_cart_address` -

Shipping/billing addresses `mprexpresscheckout_cart_rule` - Applied

vouchers/discounts

Tablas de sesiones y seguimiento

`mpr_sessions` - Shared session tracking

- Device, browser, OS detection

- UTM campaign tracking

- Landing page tracking

- IP and user agent storage

`mprexpresscheckout_admin_preferences` - Admin user preferences

`mprexpresscheckout_admin_order` - Admin-created orders `mprexpresscheckout_sso_codes`
- SMS authentication codes `mprexpresscheckout_customer_vat` - VAT validation results

Tablas B2B y empresariales

`mpr_customer` - Extended customer data

- Default preferences (address, carrier, payment)

- Two-factor authentication settings

- Marketing consent tracking (GDPR compliant)

- Tax exemption status

`mpr_company` - Company account data

- VAT number and validation

- Company verification status

- Invite links and domain matching

`mpr_company_member` - Company membership

- Role-based access (admin/member)

- Granular permissions (advanced mode)

- Join method tracking (invite, domain, VAT, admin)

`mpr_company_address` - Shared company addresses `mpr_company_invite` - Email-based
company invitations

Tablas de cotizaciones/RFQ

`mprexpresscheckout_quote` - Quote management

- Customer and shop associations

- Pricing totals (products, shipping, discounts, tax)

- Validity dates and payment link tokens

- Status tracking and order conversion

- Admin/customer message history

`mprexpresscheckout_quote_item` - Quote line items

- Product references with attributes

- Custom pricing (original vs. quoted price)

- Quantity and discount tracking

- Tax rate and amount

`mprexpresscheckout_quote_status` - Quote workflow statuses

- Status name and color coding

- Multilingual labels via `_lang` table

- System flags for built-in statuses

- Position ordering

`mprexpresscheckout_quote_message` - Quote communication

- Customer and admin messages

- Timestamps and read status

- Employee attribution for admin messages

`mprexpresscheckout_quote_history` - Quote audit trail

- Status change tracking

- Employee attribution

- Timestamp logging

Desarrollo

Requisitos previos

El modulo requiere un entorno de desarrollo Docker. Ver `CLAUDE.md` en la raiz del repositorio para la configuracion completa.

Herramientas requeridas:

- PHP 8.4.11 (via Docker `dev-tools` container)

- Node.js 20.19.2

- npm 9.2.0

- Composer 2.8.12

Comandos de build

Todos los comandos deben ejecutarse a traves del contenedor Docker:

```
# Navigate to module directory
cd /mnt/hdd/docker/ps178-mprexpresscheckout/html/modules/mprexpresscheckout

# Install PHP dependencies
sudo docker exec -w "$PWD" dev-tools composer install

# Install Node.js dependencies
sudo docker exec -w "$PWD" dev-tools npm install

# Build all assets (JavaScript + CSS)
sudo docker exec -w "$PWD" dev-tools npm run build

# Watch for changes during development
sudo docker exec -w "$PWD" dev-tools npm run watch

# JavaScript build only
sudo docker exec -w "$PWD" dev-tools npm run js:build
```

```
sudo docker exec -w "$PWD" dev-tools npm run js:watch


# Webpack build
sudo docker exec -w "$PWD" dev-tools npm run webpack:build
sudo docker exec -w "$PWD" dev-tools npm run webpack:watch
```

Sistema de build

El modulo utiliza un sistema de build hibrido:

Gulp - Herramienta de build principal

- SCSS compilation to CSS

- JavaScript bundling with Rollup

- Minification with Terser

- Source file watching

Webpack - Bundler alternativo

- Module bundling

- Code splitting

- Production optimization

Grunt - Empaquetado de release

- ZIP archive creation for distribution

Archivos fuente

JavaScript Sources: `sources/js/`

- Organized by feature (checkout, payment, social, etc.)

- ES6+ syntax with transpilation

- Compiled to `views/js/`

CSS Sources: `sources/css/`

- SCSS with variables and mixins

- Component-based structure

- Compiled to `views/css/`

Calidad del codigo

```
# PHP syntax check
sudo docker exec -w "$PWD" dev-tools php -l file.php


# Check PHP version
sudo docker exec dev-tools php -v


# Check installed PHP modules
sudo docker exec dev-tools php -m
```

Configuracion

Paginas de configuracion admin

Acceso a traves del panel de administracion de PrestaShop bajo **Modules > Module Manager > MPR Express Checkout**.

Pestanas principales:

1. **Dashboard** - Transaction overview and statistics

2. **Configuration** - Stripe API keys, payment method settings, icon themes

3. **Transactions** - All payment transactions with filters

4. **Charges** - Stripe charge details and fees

5. **Refunds** - Refund management interface

6. **Payment Options** - Enable/disable methods, set restrictions

7. **Payment Methods** - Customer saved payment methods

8. **Social Customers** - Social login registrations

9. **Carts** - Express checkout cart sessions

10. **Sessions** - Traffic and attribution tracking

11. **Shipping Services** - Carrier configuration

12. **Quotes** - Quote management and creation

13. **Quote Statuses** - Customize quote workflow statuses

14. **Integrity** - System health checks

Configuracion de metodos de pago

Cada metodo de pago puede configurarse con:

- **Enabled/Disabled** status

- **Country restrictions** (specific countries only)

- **Currency restrictions** (supported currencies only)

- **Browser restrictions** (e.g., Apple Pay requires Safari)

- **Page type restrictions** (product, cart, checkout)

- **Shop/Language/Group context** (multistore support)

Configuracion de temas de iconos

Configure in **Configuration** tab:

- **Icon Theme**: Light Mode, Dark Mode, Light Accent, Dark Accent

- **Card Display Mode**: Generic card icon OR individual card brand icons

- **Card Brands**: Select which card brands to display (Visa, Mastercard, Amex, JCB, Cartes Bancaires)

Configuracion de Stripe

Required configuration:

- **Test Mode API Key** (Publishable & Secret)

- **Live Mode API Key** (Publishable & Secret)

- **Webhook Secret** (for payment status updates)

- **Mode Toggle** (Test/Live)

Configuracion de Social Login

Configure OAuth credentials for:

- **Google** - Client ID and Client Secret

- **Facebook** - App ID and App Secret

- **Apple** - Service ID, Team ID, Key ID, Private Key

- **Microsoft** - Client ID and Client Secret

Google Places API

For address autocomplete:

- **API Key** - Google Maps JavaScript API with Places library enabled

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Controladores Frontend

El modulo proporciona 16 controladores frontend accesibles a traves de los enlaces del modulo:

Controladores del flujo de checkout

`Checkout.php` - Main unified checkout modal

- Displays payment method selection

- Handles customer authentication

- Manages address forms

- Shipping method selection

- Order review and confirmation

`Processing.php` - Payment processing handler

- Stripe Payment Intent confirmation

- Order creation after successful payment

- Redirect to order confirmation

`PaymentStatus.php` - Payment result page

- Success/failure messaging

- Order details display

- Error handling

Controladores de gestion de clientes

`Login.php` - Customer login

- Email/password authentication

- Social login integration

- Remember me functionality

`Register.php` - Customer registration

- Account creation form

- Social registration

- Email verification

`ForgotPassword.php` - Password recovery

- Email-based password reset

- Security code generation

`Account.php` - Customer account overview `Identity.php` - Personal information management

Controladores de gestion de direcciones

`Address.php` - Single address CRUD

- Add new address

- Edit existing address

- Delete address

- Google Places autocomplete integration

`Addresses.php` - Address book listing

- View all addresses

- Set default addresses

- Quick actions

Controladores de pago y carrito

`Cards.php` - Saved payment methods

- List stored cards

- Delete payment methods

- Set default card

`Cart.php` - Cart management

- View cart contents

- Update quantities

- Apply vouchers

`Recover.php` - Cart recovery

- Recover abandoned carts via email link

- Restore cart session

- Continue to checkout

Controladores de cotizaciones

`Quotes.php` - Customer quotes list

- View all quotes with status filtering

- Pagination and sorting

- Quick actions (view, download PDF)

`Quote.php` - Single quote detail view

- Quote items with pricing

- Status and validity display

- Accept/reject quote actions

- Request changes functionality

- Messaging with admin

- Payment link access

`QuoteRequest.php` - Quote request form

- Request quote for single product

- Request quote for entire cart

- Guest and logged-in customer support

- Custom message to admin

`QuotePdf.php` - Quote PDF download

- Generate professional PDF quotes

- Customer-facing download

- Secure token validation

Controladores API

`Ajax.php` - AJAX endpoint handler

- Address validation

- Shipping rate calculation

- Voucher validation

- Country/state lists

- Product availability checks

`Webhook.php` - Stripe webhook receiver

- Payment Intent updates

- Charge succeeded/failed events

- Refund notifications

- Automatic order status updates

Controladores Admin

16 controladores backend gestionan todas las funciones administrativas:

`AdminMPRExpressCheckoutDashboardController` - Main dashboard with KPIs

`AdminMPRExpressCheckoutConfigController` - Module configuration interface

`AdminMPRExpressCheckoutTransactionsController` - Transaction list and details

- Filter by status, date, amount, customer

- Export to CSV

- View transaction timeline

`AdminMPRExpressCheckoutChargesController` - Charge details

- Payment Intent and Charge IDs

- Fee breakdown

- Risk scores

- Receipt links

`AdminMPRExpressCheckoutRefundsController` - Refund management

- Initiate full/partial refunds

- View refund history

- Track refund status

`AdminMPRExpressCheckoutPaymentOptionsController` - Payment method settings

- Enable/disable methods

- Set country/currency restrictions

- Configure context rules

- Reorder display positions

`AdminMPRExpressCheckoutPaymentMethodsController` - Customer saved cards

- View all stored payment methods

- Delete payment methods

- Customer association

`AdminMPRExpressCheckoutSocialCustomersController` - Social login tracking

- View social registrations

- Platform statistics

- Login history

`AdminMPRExpressCheckoutCartsController` - Express checkout sessions

- View virtual carts

- Cart recovery status

- Customer matching

- Expiry management

`AdminMPRExpressCheckoutSessionsController` - Traffic analytics

- Session tracking

- UTM campaign data

- Landing page analysis

- Device/browser stats

`AdminMPRExpressCheckoutShippingServiceController` - Carrier configuration

- Set transit times

- Configure display modes

- Payment method restrictions

- External module integration

`AdminMPRExpressCheckoutQuotesController` - Quote management

- View and filter all quotes

- Create quotes from admin

- Edit quote items and pricing

- Send quotes to customers

- Convert quotes to orders

- Generate payment links

- Message customers

- View quote history

`AdminMPRExpressCheckoutQuoteStatusesController` - Quote status management

- Create custom statuses

- Edit status colors and labels

- Multilingual status names

- Reorder status display

`AdminMPRExpressCheckoutIntegrityController` - System health checks

- Database integrity validation

- Configuration validation

- File integrity checks

- Dependency verification

`AdminMPRExpressCheckoutAjaxController` - Admin AJAX endpoint

- Dynamic form updates

- Autocomplete suggestions

- Quick actions

Puntos de integracion

PrestaShop Hooks

El modulo se conecta a multiples puntos del ciclo de vida de PrestaShop:

Hooks de pagina de producto:

- `displayProductAdditionalInfo` - Express checkout button on product pages
- `displayProductActions` - Alternative button placement

Hooks del carrito:

- `displayShoppingCart` - Express checkout in cart
- `displayShoppingCartFooter` - Cart footer buttons

Hooks del checkout:

- `displayPaymentReturn` - Order confirmation messaging
- `paymentOptions` - Add payment methods to checkout
- `displayOrderConfirmation` - Post-order actions

Hooks del cliente:

- `actionAuthentication` - Post-login actions
- `actionCustomerAccountAdd` - Post-registration actions
- `actionObjectCustomerUpdateAfter` - Customer data sync

Hooks de pedidos:

- `actionValidateOrder` - Order creation tracking
- `actionOrderStatusUpdate` - Sync order status with Stripe
- `displayAdminOrder` - Admin order page additions

Hooks Header/Footer:

- `displayHeader` - Load Stripe.js and module assets

- `displayFooter` - Initialize checkout scripts

Integraciones API externas

Stripe API

- Payment Intents API for payment processing

- Customers API for saved payment methods

- Charges API for transaction details

- Refunds API for refund processing

- Webhooks for real-time updates

Google APIs

- Google Sign-In for OAuth authentication

- Google Places API for address autocomplete

Facebook API

- Facebook Login for OAuth authentication

- Graph API for user profile data

Apple Sign In

- Sign in with Apple for iOS/macOS users

- JWT token validation

Microsoft Identity Platform

- Microsoft account authentication

- Azure AD integration

VIES API

- EU VAT number validation

- Company verification

Sistema de cotizaciones/RFQ

El modulo incluye un sistema completo de cotizaciones/solicitud de cotizacion (RFQ) para comercio B2B, que permite a los clientes solicitar precios personalizados y a los admins crear ofertas a medida.

Workflow de cotizaciones

Ciclo de vida de estados:

1. **Pending** - Initial quote request from customer

2. **Draft** - Admin is preparing the quote

3. **Sent** - Quote sent to customer for review

4. **Negotiating** - Customer requested changes, discussion ongoing

5. **Accepted** - Customer accepted the quote

6. **Rejected** - Customer declined the quote

7. **Expired** - Quote validity period passed

8. **Converted** - Quote converted to order

9. **Cancelled** - Quote cancelled by admin

Funciones del cliente

Solicitud de cotizacion:

- Request quotes from product pages via "Request Quote" button

- Request quotes for entire cart contents

- Add custom messages explaining requirements

- Guest quote requests (if enabled)

Gestion de cotizaciones:

- View all quotes in "My Quotes" section of customer account

- See pending quote count badge

- View detailed quote with itemized pricing

- Accept or reject quotes with one click

- Request changes with explanation message

- Message admin directly on quote detail page

- Download PDF version of quotes

- Access payment link for accepted quotes

Funciones de administracion

Creacion de cotizacion:

- Create quotes from admin panel

- Import products from existing cart or order

- Add products with custom pricing

- Set item-level discounts

- Configure shipping costs

- Set quote validity period

Gestion de cotizaciones:

- View all quotes with advanced filtering

- Edit quote items and pricing anytime

- Send quotes to customers

- Generate secure payment links

- View and respond to customer messages

- Track full quote history (status changes, messages)

- Convert accepted quotes to orders

Estados de cotizacion:

- 9 built-in statuses with colors

- Create custom statuses

- Multilingual status labels

- Reorder status display

Generacion de PDF

Los presupuestos PDF profesionales incluyen:

- Company logo and branding

- Quote reference and dates

- Customer billing/shipping addresses

- Itemized product list with images

- Individual and total pricing

- Terms and conditions

- Validity period

- Custom footer text

Opciones de configuracion

- Enable/disable quote system globally

- Show/hide "Request Quote" button on product pages

- Show/hide "Request Quote" button in cart

- Allow guest quote requests

- Default quote validity period

- PDF customization (logo, terms, footer)

- Email notifications for quote events

Hooks

Hooks producto/carrito:

- `displayQuoteButtonProduct` - "Request Quote" button on product pages

- `displayShoppingCartFooter` - "Request Quote" button in cart

Cuenta del cliente:

- `displayCustomerAccount` - "My Quotes" link with pending badge

Hoja de ruta futura

Funciones planificadas

Expansion de metodos de pago

- Additional regional payment methods

- Cryptocurrency support (Bitcoin, Ethereum)

- Local payment gateways beyond Stripe

Funciones B2B mejoradas

- ~~Quote request system~~ ⬜ Implemented

- Approval workflows for company purchases

- Custom pricing per company/customer

- Volume discount automation

- Credit limit enforcement

Recuperacion avanzada del carrito

- Multi-step email sequences

- SMS cart recovery

- Push notifications for abandoned carts

- Dynamic discount offers in recovery emails

Analisis y reportes

- Conversion funnel analysis

- Payment method performance comparison

- Geographic sales mapping

- Customer lifetime value tracking

- A/B testing framework for checkout variations

Suscripciones y pagos recurrentes

- Subscription product support

- Automatic recurring billing

- Subscription management portal

- Trial period handling

Mejoras multi-moneda

- Dynamic currency conversion at checkout

- Display prices in customer's local currency

- Multi-currency saved payment methods

Integracion con aplicacion movil

- Native mobile SDK

- In-app payment processing

- Mobile wallet integration expansion

Funciones basadas en IA

- Fraud detection using machine learning

- Predictive cart abandonment prevention

- Smart payment method recommendations

- Personalized checkout experiences

Optimizaciones de rendimiento

- Service worker for offline cart management

- Progressive web app (PWA) checkout

- Lazy loading of payment method scripts

- CDN integration for static assets

Cumplimiento y seguridad

- PSD2 Strong Customer Authentication (SCA)

- GDPR data export/deletion tools

- SOC 2 compliance reporting

- Enhanced fraud prevention rules

Herramientas para desarrolladores

Suite de pruebas

- Unit tests for all classes

- Integration tests for payment flows

- End-to-end testing with Puppeteer

- Performance benchmarking tools

API & Webhooks

- Public API for headless commerce

- Custom webhook events

- GraphQL API support

Documentacion

- Developer API documentation

- Integration guides for third-party modules

- Theme customization guide

- Video tutorials

Soporte y recursos

Documentation: `/docs/` directory **License:** Commercial - restricted domains only

Author: mypresta.rocks (info@mypresta.rocks) **Repository:**

https://github.com/myprestarocks/mprexpresscheckout

Especificaciones tecnicas

PHP Requirements: 7.1.3+ (Tested with PHP 8.4.11) **PrestaShop Version:** 1.6 -
1.7.8.11+ **Database:** MySQL 5.5+ / MariaDB **Dependencias externas:**

- Stripe PHP SDK (via Composer)
- Firebase JWT (for social login token validation)
- Google Closure Compiler (dev dependency)
- Webpack, Gulp, Grunt (dev dependencies)

Soporte de navegadores:

- Chrome 90+ (Google Pay, Samsung Pay)
- Safari 14+ (Apple Pay)
- Firefox 88+
- Edge 90+
- Mobile browsers (iOS Safari 14+, Chrome Mobile 90+)

Tamano del modulo:

- Total Lines of Code: 35,000+ (PHP classes, controllers, templates)
- Core Classes: 30+ (28,000+ lines)
- Controllers: 36 (20 frontend + 16 admin)
- Database Tables: 34
- SVG Icons: 248
- Supported Languages: 7

Licencia

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