

# MT-Facturation API Reference (Table + Command Syntax)

Source: api-reference.md

Base URL used in syntax column: http://192.168.10.9:8000

Default bearer token used in syntax column: launch-smoke:admin,ops

Method	Endpoint	Auth	Cmd Syntax (curl)	Purpose	Inputs	Response / Rules
GET	/api/v1/health	public.	curl "http://192.168.10.9:8000/api/v1/health"	service health probe.	none.	{ "status": "ok" }.
GET	/api/v1/me	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/me"	returns caller identity extracted by middleware.	auth headers.	{ "actor_id": "...", "roles": [...] }.
GET	/api/v1/admin/ping	required with admin role.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/admin/ping"	admin-only authorization check endpoint.	auth headers.	{ "status": "ok", "actor_id": "..." }.
GET	/api/v1/conventions/sample	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/conventions/sample"	sample endpoint showing standard paginated envelope format.	pagination query params.	paginated sample item list.
POST	/api/v1/customers	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/customers"	creates a new client.	-	CIN is normalized to uppercase.; CIN must be unique; duplicates return 409 client_cin_conflict.; created ClientRead.
GET	/api/v1/customers	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/customers"	lists clients in reverse creation order.	pagination query params.	paginated ClientRead list.
GET	/api/v1/customers/{client_id}	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/customers/"	fetches one client by ID.	path client_id.	ClientRead.; 404 client_not_found.
PUT	/api/v1/customers/{client_id}	required.	curl -X PUT -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/customers/"	updates mutable client fields.	path client_id; body (ClientUpdate)	CIN uniqueness is re-checked if changed.; updated ClientRead.
DELETE	/api/v1/customers/{client_id}	required.	curl -X DELETE -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/customers/"	deletes a client record.	path client_id.	deletion is blocked if any contract, invoice, payment, or collection history exists.; blocked case returns 409 client_delete_blocked.; 204 No Content.
POST	/api/v1/customers/{client_id}/subscribers	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/customers/subscribers"	creates a subscriber line/device record for a client.	path client_id; body (SubscriberCreate); service_type, service_identifier, optional status	service_identifier must be globally unique; conflicts return 409 subscriber_identifier_conflict.; created SubscriberRead.
GET	/api/v1/customers/{client_id}/subscribers	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/customers/subscribers"	lists subscribers for one client.	path client_id + pagination query params.	paginated SubscriberRead list.
GET	/api/v1/subscribers/{subscriber_id}	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/subscribers/"	gets a subscriber by ID.	path subscriber_id.	SubscriberRead.
PUT	/api/v1/subscribers/{subscriber_id}	required.	curl -X PUT -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/subscribers/"	updates subscriber fields (primarily lifecycle status).	path subscriber_id; body (SubscriberUpdate)	updated SubscriberRead.
POST	/api/v1/offers	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/offers"	creates an offer.	-	uniqueness by (name, service_category, version); strict service-component validation;; created OfferRead.
GET	/api/v1/offers	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/offers"	lists offers.	pagination query params.	paginated OfferRead list.
GET	/api/v1/offer-categories	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/offer-categories"	grouped catalog view by service category.	none.	OfferCategoryRead[].
GET	/api/v1/offer-families	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/offer-families"	backward-compatible alias for grouped categories.	none.	same as /offer-categories.
GET	/api/v1/offers/{offer_id}	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/offers/"	fetches an offer by ID.	path offer_id.	OfferRead.

Method	Endpoint	Auth	Cmd Syntax (curl)	Purpose	Inputs	Response / Rules
PUT	/api/v1/offers/{offer_id}	required.	curl -X PUT -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/offers/"	updates offer fields.	path offer_id; body (OfferUpdate)	merged payload is revalidated against full OfferCreate rules before saving.; updated OfferRead.
DELETE	/api/v1/offers/{offer_id}	required.	curl -X DELETE -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/offers/"	deletes an offer.	path offer_id.	blocked if contract history exists for the offer (409 offer_delete_blocked).; 204 No Content.
POST	/api/v1/contracts/provision	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/contracts/provision"	orchestrated contract provisioning (new contract or upgrade).	-	validates offer active/validity window.; auto mode can detect upgrade vs new contract.; handles disambiguation errors when multiple upgrade candidates exist.; upgrades now apply selected contract_start_date to target contract start date.; writes contract audit events.
POST	/api/v1/contracts	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/contracts"	manual direct contract creation (without auto orchestration decisions).	-	enforces subscriber ownership and offer/subscriber compatibility.; blocks if subscriber already has open contract.; writes contract_created audit event.; created ContractRead.
GET	/api/v1/contracts	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/contracts"	lists contracts.	pagination query params.	paginated ContractRead list.
GET	/api/v1/contracts/{contract_id}	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/contracts/"	gets one contract.	path contract_id.	ContractRead.
PUT	/api/v1/contracts/{contract_id}/status	required.	curl -X PUT -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/contracts//status"	changes contract lifecycle status.	path contract_id; body (ContractStatusUpdate)	enforces transition matrix (draft/active/suspended/terminated).; writes contract_status_changed audit event.; updated ContractRead.
PUT	/api/v1/contracts/{contract_id}/offer	required.	curl -X PUT -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/contracts//offer"	changes contract offer.	path contract_id; body (ContractOfferUpdate)	validates subscriber-offer compatibility.; writes contract_offer_changed audit event.; updated ContractRead.
GET	/api/v1/contracts/{contract_id}/audit	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/contracts//audit"	returns chronological contract audit trail.	path contract_id.	ContractAuditEventRead[].
GET	/api/v1/landing/bootstrap	public.	curl "http://192.168.10.9:8000/api/v1/landing/bootstrap"	returns landing entry metadata.	none.	-
POST	/api/v1/landing/drafts	public.	curl -X POST -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/landing/drafts"	stores an in-progress landing draft.	-	LandingDraftRead.
GET	/api/v1/landing/drafts/{draft_id}	public.	curl "http://192.168.10.9:8000/api/v1/landing/drafts/"	retrieves a stored draft.	path draft_id.	LandingDraftRead.; 404 landing_draft_not_found.
PUT	/api/v1/landing/drafts/{draft_id}	public.	curl -X PUT -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/landing/drafts/"	partially updates draft step/CIN/payload/status.	path draft_id; body (LandingDraftUpdate)	updated LandingDraftRead.
POST	/api/v1/landing/clients/verify-cin	public.	curl -X POST -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/landing/clients/verify-cin"	CIN-only verification bootstrap for self-service lookup.	-	client must exist by CIN (404 landing_client_not_found otherwise).
GET	/api/v1/landing/clients/{cin}/subscriptions?lookup_token=...	public with valid lookup token.	curl "http://192.168.10.9:8000/api/v1/landing/clients//subscriptions?lookup_token="	returns active subscriptions for a verified CIN.	path cin; query lookup_token	token CIN must match path CIN; mismatch returns 403 landing_lookup_token_mismatch.
GET	/api/v1/landing/clients/{cin}/invoices?lookup_token=...	public with valid lookup token.	curl "http://192.168.10.9:8000/api/v1/landing/clients//invoices?lookup_token="	returns invoice history for verified CIN.	path cin + query lookup_token.	-

Method	Endpoint	Auth	Cmd Syntax (curl)	Purpose	Inputs	Response / Rules
POST	/api/v1/landing/submit/new	public.	curl -X POST -H "Idempotency-Key: demo-key-12345678" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/landing/submit/new"	final submit for new subscription flow.	Idempotency-Key.	CIN reconciliation decides create client or reuse existing client.; backend normalizes Moroccan phone/landline formats.; identifier uniqueness is enforced.; triggers provisioning orchestration and contract PDF generation.; idempotent replay supported.
POST	/api/v1/landing/submit/plan-change	public.	curl -X POST -H "Idempotency-Key: demo-key-12345678" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/landing/submit/plan-change"	final submit for upgrade/downgrade flow.	Idempotency-Key.	source contract must belong to CIN client.; target offer must be in same service category.; executes upgrade provisioning mode.; selected contract_start_date is applied as upgraded contract effective start date.; generates/returns contract PDF link.; LandingSubmitResult.
POST	/api/v1/landing/contracts/{contract_id}/document-link	public.	curl -X POST -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/landing/contracts//document-link"	returns (or regenerates) a downloadable contract PDF URL for a CIN-owned contract.	path contract_id; body (LandingContractDocumentLinkRequest): cin	CIN must match contract owner (403 landing_contract_client mismatch on mismatch); if PDF missing, system generates it and stores metadata.
GET	/api/v1/landing/contracts/{contract_id}/document?token=...	public with signed document token.	curl "http://192.168.10.9:8000/api/v1/landing/contracts//document?token="	downloads contract PDF.	path contract_id; query token	file stream (application/pdf).; token is validated for purpose, CIN ownership, and contract match.
GET	/api/v1/landing/invoices/{invoice_id}/document?token=...	public with signed invoice document token.	curl "http://192.168.10.9:8000/api/v1/landing/invoices//document?token="	downloads invoice PDF from landing flow.	path invoice_id + query token.	file stream (application/pdf).
POST	/api/v1/billing/runs	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Idempotency-Key: demo-key-12345678" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/billing/runs"	executes one billing cycle for a given period.	Idempotency-Key.	idempotent by key+payload hash.; invoices are grouped per client from active contracts billable in the period.; generates recurring lines and activation lines (activation only if contract start is within billing period).; issues invoice PDFs and stores file metadata.
GET	/api/v1/invoices	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/invoices"	lists invoices with optional filters.	pagination query params; optional client_id; optional service in mobile internet landline; optional offer_id	paginated InvoiceRead list.
GET	/api/v1/invoices/{invoice_id}	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/invoices/"	gets invoice header plus line details.	path invoice_id.	InvoiceDetailRead (invoice + lines[]).
GET	/api/v1/invoices/{invoice_id}/pdf	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/invoices//pdf"	downloads invoice PDF.	path invoice_id.	file stream (application/pdf).; if file metadata exists but file missing, system attempts regeneration from invoice lines.
POST	/api/v1/collections/payments	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Idempotency-Key: demo-key-12345678" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/collections/payments"	records a payment against an invoice and allocates it.	Idempotency-Key.	prevents overpayment (422 payment_exceeds_outstanding); blocks payment on void/already-paid invoice.; synchronizes invoice status and collection case lifecycle.; marks client delinquency state accordingly.

Method	Endpoint	Auth	Cmd Syntax (curl)	Purpose	Inputs	Response / Rules
POST	/api/v1/collections/invoices/{invoice_id}/approve-paid	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Idempotency-Key: demo-key-12345678" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/collections/invoices//approve-paid"	operator shortcut to settle full outstanding balance of an invoice.	Idempotency-Key; path invoice_id; body (InvoicePaymentApprovalRequest) with optional date/method/reference/note.	internally creates a full-amount posted payment via same allocation path as standard payment.; PaymentAllocationResult.
GET	/api/v1/collections/payments	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/collections/payments"	lists posted payments.	pagination query params; optional invoice_id; optional client_id	paginated PaymentRead list.
GET	/api/v1/collections/cases	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/collections/cases"	lists collection cases.	pagination query params; optional status, aging_bucket, client_id	endpoint first synchronizes overdue states before returning results.; paginated CollectionCaseRead list.
GET	/api/v1/collections/cases/{case_id}/actions	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/collections/cases/actions"	returns action history for one case.	path case_id.	CollectionCaseActionRead[] (latest first).
PUT	/api/v1/collections/cases/{case_id}/status	required.	curl -X PUT -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/collections/cases/status"	changes case status manually.	path case_id; body (CollectionCaseStatusUpdate) with optional note.	writes an action entry status_updated.; updated CollectionCaseRead.
POST	/api/v1/collections/cases/{case_id}/actions	required.	curl -X POST -H "Authorization: Bearer launch-smoke:admin,ops" -H "Content-Type: application/json" -d "" "http://192.168.10.9:8000/api/v1/collections/cases/actions"	appends a manual action to a collection case.	path case_id; body (CollectionCaseActionCreate); action_type, optional note.	note action requires non-empty note.; reminder/warning actions can transition case from open to in_progress.; created CollectionCaseActionRead.
GET	/api/v1/collections/overview	required.	curl -H "Authorization: Bearer launch-smoke:admin,ops" "http://192.168.10.9:8000/api/v1/collections/overview"	returns collections KPI snapshot.	none.	synchronizes overdue states before computing metrics.