

Document Version:
v2.4 (2026 Edition)

To eliminate manual intervention and achieve sub-minute digital customs pre-clearance, enterprise ERP systems connect directly to the automated cross-border infrastructure via RESTful APIs. This section details mandatory security authentication protocols required for all API clients.

Enterprise gateways must whitelist Tendify primary and fallback API gateway IP ranges. Static outbound IPs must be submitted to the Customs Gateway Security Desk prior to issuing production API keys.

```
POST /api/v2/customs/declarations/submit HTTP/1.1
Host: api.platform.tendify.net
Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ0ZW5kawZ5LWF1dGgiLCJleHAiOiE3NzE3NiY0MDB9...
```

Content-Type: application/json
X-Correlation-ID: e8f3c1a4-9b2d-4e5f-8a1c-7b3d9e2a1b4c

2. Data Mapping Sheet (Legacy ERP to Digital REST API)

This data mapping reference translates traditional SAP IDoc (INVOIC02) and Oracle XML standards into standard JSON payloads required for real-time automated border crossing and eTIR filing.

Enterprise Field Name	SAP IDoc Segment	Oracle XML Path	API Target JSON Key	Type / Requirement
Commercial Invoice No.	E1EDK01 -> BELNR	InvoiceHeader/InvoiceNumber	invoice_number	String / Required
HS Tariff Code (6-digit)	E1EDP01 -> MATNR	LineItem/ItemHSCode	hs_code	String / Required
Consignment Gross Weight	E1EDK07 -> BRGEW	Shipment/GrossWeight	gross_weight_kg	Float / Required
Electronic Bill of Lading	E1EDK02 -> BELNR (Qual 009)	Transport/WaybillNumber	eb1_reference	String / Required
Incoterms Code (2020)	E1EDK17 -> INCO1	TradeTerms/IncotermCode	incoterm	Enum / Optional
Origin Country Code	E1EDKA1 -> LAND1	Exporter/CountryCode	origin_country_iso2	String / ISO2

3. Standard Error Handling & HTTP Status Codes

When transmitting data to national customs single windows, errors are mapped to standard HTTP response codes accompanied by actionable error vectors for enterprise ERP retry mechanisms.

HTTP Status	Customs Error Code	Root Cause Scenario	Required ERP Action
400 Bad Request	ERR_HS_INVALID	HS Code provided does not match destination national tariff database.	Halt clearance, prompt user in ERP to update HS Code, re-trigger payload.
401 Unauthorized	ERR_TOKEN_EXPIRED	OAuth 2.0 Bearer token has passed 3600s TTL threshold.	Automatically call /auth/token endpoint and retry initial request.
422 Unprocessable	ERR_EBL_MISMATCH	Carrier e-BL reference number is not registered in eTIR/eCustoms node.	Verify Bill of Lading issue status with freight carrier logistics module.

HTTP Status	Customs Error Code	Root Cause Scenario	Required ERP Action
503 Service Unavailable	ERR_GATEWAY_TIMEOUT	Border Customs Gateway undergoing scheduled offline maintenance.	Queue payload in ERP outbound spooler; execute exponential backoff retry.

3.1 Normalized Outbound JSON Payload Example

```
{
  "declaration_header": {
    "invoice_number": "INV-2026-9042",
    "incoterm": "DDP",
    "origin_country_iso2": "AE",
    "ebl_reference": "EBL-EGY-88301"
  },
  "consignment_details": {
    "total_packages": 120,
    "gross_weight_kg": 4580.50,
    "line_items": [
      {
        "item_sequence": 1,
        "hs_code": "847130",
        "declared_value_usd": 125000.00
      }
    ]
  }
}
```