



Consumption Operations Reports (Reops)

Receita Federal do Brasil (RFB)

Empresa Nacional de Inteligência em Governo Digital e Tecnologia da Informação (Serpro)

Official Technical Document • Merchandise Shipping Operations

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 **Initial version (Beta)** — This specification is in a preliminary phase. Attributes, types, validation rules, and payload structure may be changed in future versions.

Objective

To disclose the **data structure (payload)** of the consumption **operations reports** API, covering information related to **merchandise shipping operations**.

Hierarchical Message Model

The structure is hierarchical, starting with the **reporte** (report), containing **transmissor** (transmitter), **operações** (operations), and **remessas** (shipments). All 67 fields are represented.

```

reporte
├── identificadorReporte
├── ambiente
├── transmissor
│   └── cnpjTransmissor
├── operacoes[]
│   ├── cnpjDeclarante
│   ├── paisOrigem
│   ├── tipoOperacao
│   └── remessas[]
│       ├── descricao
│       ├── destinacaoComercial
│       ├── frete
│       ├── freteModoPagamento
│       ├── moedaFrete
│       ├── infoCompl
│       ├── infoFiscalizacao
│       ├── identificadorRemessa
│       ├── numeroRemessa
│       ├── peso
│       ├── desconto
│       ├── moedaDesconto
│       ├── destinatario
│       │   ├── conta
│       │   ├── documento
│       │   ├── nome
│       │   ├── tipoDocumento
│       │   └── endereco
│       │       ├── cep
│       │       ├── complemento
│       │       ├── estado
│       │       ├── logradouro
│       │       ├── municipio
│       │       └── pais
│       ├── mercadorias[]
│       │   ├── codElementoNcm
│       │   ├── descricao
│       │   ├── moeda
│       │   ├── peso
│       │   ├── quantidade
│       │   ├── regimeTributacao
│       │   ├── sequencia
│       │   ├── tratamentoAdm
│       │   ├── unidade
│       │   ├── valor
│       │   └── cClassTrib
│       ├── remessaConforme
│       │   ├── codigoOnd
│       │   ├── nomeOnd
│       │   ├── valorProvICMS
│       │   ├── valorProvII
│       │   ├── valorProvisionadoCBS
│       │   ├── valorProvisionadoIBSEstadual
│       │   ├── valorProvisionadoIBSMunicipal
│       │   └── dataCompra
│       └── remetente
│           ├── conta
│           ├── documento
│           ├── nome
│           ├── tipoDocumento
│           └── endereco
│               ├── cep
│               ├── complemento
│               ├── estado
│               ├── logradouro
│               ├── municipio
│               └── pais

```

Data Dictionary

Occurrence legend: 1:1 — mandatory, exactly once | 1:N — mandatory, one or more times | 0:1 — optional, at most once

◆ Batch — Root structure

#	Field	Type	Level	Occurrence	Description
1	reporte	Object	1	1:1	Root element of the message
2	identificadorReporte	String(50)	2	1:1	Unique identifier of the report
3	ambiente	String(1)	2	1:1	1 — Production / 2 — Staging
4	transmissor	Object	2	1:1	Block with transmitter data
5	cnpjTransmissor	String(14)	3	1:1	Transmitter's CNPJ

◆ Operation

#	Field	Type	Level	Occurrence	Description
6	operacoes	Array	2	1:N	List of consumption operations
7	cnpjDeclarante	String(14)	3	1:1	CNPJ of the responsible company
8	paisOrigem	String(3)	3	1:1	Country of origin code
9	tipoOperacao	String(1)	3	1:1	O — Original / R — Rectifying
10	remessas	Array	3	1:N	List of shipments linked to the operation

◆ Shipment

#	Field	Type	Level	Occurrence	Description
11	descricao	String(4000)	4	1:1	General description of the shipment's contents
12	destinacaoComercial	String(1)	4	1:1	s (Yes) or n (No). Indicates if there is commercial intent
13	frete	Decimal(9,2)	4	1:1	Freight value
14	freteModoPagamento	String	4	1:1	PREPAID or COLLECT
15	infoCompl	String(4000)	4	0:1	Additional information of the shipment
16	infoFiscalizacao	String(500)	4	0:1	Information for inspection use

#	Field	Type	Level	Occurrence	Description
17	moedaFrete	String(3)	4	1:1	Freight currency code (e.g., 790 or 220)
18	identificadorRemessa	String(50)	4	1:1	Shipment identification code. Alphanumeric uppercase
19	numeroRemessa	String(18)	4	0:1	Shipment tracking code. Alphanumeric uppercase
20	peso	Decimal(10,2)	4	1:1	Gross weight in KG. Must be at least the sum of the goods' weights
21	desconto	Decimal(9,2)	4	1:1	Total discount value granted in the shipment's commercial transaction. Inform zero when inexistent. Exclusively informative field, not composing the customs value nor the tax calculation basis, which must be informed already net of discounts
22	moedaDesconto	String(3)	4	1:1	Discount currency code (e.g., 790 or 220)

◆ Recipient

#	Field	Type	Level	Occurrence	Description
23	destinatario	Object	4	1:1	Recipient's data block
24	conta	String(10)	5	0:1	Recipient's account code with the shipping operator company
25	documento	String(14)	5	1:1	Recipient's tax identification document
26	nome	String(255)	5	1:1	Recipient's name
27	tipoDocumento	String(1)	5	1:1	1 — CPF / 2 — CNPJ / 3 — Passport

◆ Recipient's address

#	Field	Type	Level	Occurrence	Description
28	endereco	Object	5	1:1	Recipient's address block
29	cep	String(15)	6	0:1	Postal/ZIP Code. National CEP: up to 8 characters (hyphens and periods allowed)
30	complemento	String(80)	6	0:1	Additional info (e.g., Apt, Building block, Neighborhood)
31	estado	String(2)	6	1:1	State acronym
32	logradouro	String(50)	6	1:1	Street, avenue or public way name
33	municipio	String(4)	6	1:1	Municipality code. When national, must belong to the informed state

#	Field	Type	Level	Occurrence	Description
34	pais	String(3)	6	1:1	Country code

◆ Goods

#	Field	Type	Level	Occurrence	Description
35	mercadorias	Array	4	1:N	List of goods in the shipment
36	codElementoNcm	String(8)	5	1:1	NCM classification code (Mercosur Common Nomenclature)
37	descricao	String(4000)	5	1:1	Complete description of the goods (species, brand, model, commercial name) that allows for its perfect identification and tax classification
38	moeda	String(3)	5	1:1	Currency code referent to the goods' value
39	peso	Decimal(10,2)	5	0:1	Weight of the goods in Kg. Must be > zero
40	quantidade	Decimal(6,2)	5	1:1	Quantity of the goods item in the informed measurement unit. Must be > zero
41	regimeTributacao	Decimal(2)	5	1:1	Taxation regime code applicable to the goods item. (e.g.: Simplified Taxation (RTS), Remessa Conforme regimes — PRC, Immunity, Exemption, etc.)
42	sequencia	String(5)	5	1:1	Sequential number of the goods item in the shipment, for identification in future rectification or return transactions.
43	tratamentoAdm	Decimal(2)	5	0:1	Administrative treatment — routes for selection of agency/agencies: ANVISA, VIGIAGRO/MAPA, IBAMA, RFB or combinations
44	unidade	Decimal(2)	5	1:1	Measurement unit (e.g.: units, pairs, dozens)
45	valor	Decimal(9,2)	5	1:1	Total value of the goods item. Must be >= zero(0.00)
46	cClassTrib	String(6)	5	1:1	Tax Classification Code — tax framework of products and services under IBS and CBS

◆ Remessa Conforme

#	Field	Type	Level	Occurrence	Description
47	remessaConforme	Object	4	1:1	Data block of the Remessa Conforme program
48	codigoOnd	String(35)	5	0:1	Non-Designated Operator Code

#	Field	Type	Level	Occurrence	Description
49	nomeOnd	String(250)	5	0:1	Non-Designated Operator Name
50	valorProvICMS	Decimal(9,2)	5	1:1	Provisioned ICMS Value
51	valorProvII	Decimal(9,2)	5	1:1	Provisioned Import Tax (II) Value
52	valorProvisionadoCBS	Decimal(9,2)	5	1:1	Provisioned CBS (Contribution on Goods and Services) Value
53	valorProvisionadoIBSEstadual	Decimal(9,2)	5	1:1	Provisioned State IBS Value
54	valorProvisionadoIBSMunicipal	Decimal(9,2)	5	1:1	Provisioned Municipal IBS Value
55	dataCompra	Datetime	5	1:1	Date of the purchase made on the digital platform. Format: YYYY-MM-DDTHH:mm:ss.SSS

◆ Sender

#	Field	Type	Level	Occurrence	Description
56	remetente	Object	4	1:1	Sender's data block
57	conta	String(10)	5	0:1	Sender's account code with the operating company
58	documento	String(14)	5	1:1	Sender's tax identification document. Whenever inserted, MUST be accompanied by tipoDocumento
59	nome	String(255)	5	1:1	Sender's name
60	tipoDocumento	String(1)	5	1:1	1 — CPF / 2 — CNPJ / 3 — Passport / 5 — TIN Number

◆ Sender's address

#	Field	Type	Level	Occurrence	Description
61	endereco	Object	5	1:1	Sender's address block
62	cep	String(15)	6	0:1	Postal/ZIP Code. National CEP: up to 8 characters (hyphens and periods allowed). International: any formatting up to the limit
63	complemento	String(80)	6	0:1	Additional address info
64	estado	String(2)	6	1:1	State acronym. For abroad, fill with EX
65	logradouro	String(50)	6	1:1	Street, avenue or public way name
66	municipio	String(4)	6	1:1	Municipality code. For abroad, use 9707 . When national, must belong to the informed state
67	pais	String(3)	6	1:1	Country of origin code

Example Payload

```
{
  "reporte": {
    "identificadorReporte": "REP20260417001",
    "ambiente": "1",
    "transmissor": {
      "cnpjTransmissor": "11111111111111"
    }
  },
  "operacoes": [
    {
      "cnpjDeclarante": "11111111111111",
      "paisOrigem": "105",
      "tipoOperacao": "0",
      "remessas": [
        {
          "identificadorRemessa": "REM001",
          "numeroRemessa": "XX001",
          "descricao": "Electronic products",
          "destinacaoComercial": "S",
          "frete": 150.75,
          "freteModoPagamento": "PREPAID",
          "moedaFrete": "790",
          "peso": 10.5,
          "desconto": 0.00,
          "moedaDesconto": "790",

          "destinatario": {
            "documento": "11111111111",
            "nome": "Test Client",
            "tipoDocumento": "1",
            "endereco": {
              "logradouro": "Example Street",
              "estado": "MG",
              "municipio": "3106",
              "pais": "105"
            }
          }
        }
      ],
      "mercadorias": [
        {
          "codElementoNcm": "84713012",
          "descricao": "Brand X Model Y Notebook",
          "moeda": "790",
          "quantidade": 1,
          "regimeTributacao": 1,
          "sequencia": "00001",
          "unidade": 1,
          "valor": 3500.00,
          "cClassTrib": "123456"
        }
      ],
      "remessaConforme": {
        "valorProvICMS": 100.00,
        "valorProvII": 200.00,
        "valorProvisionadoCBS": 50.00,
        "valorProvisionadoIBSEstadual": 30.00,
        "valorProvisionadoIBSMunicipal": 20.00,
        "dataCompra": "2026-04-17T10:30:00.000"
      },
      "remetente": {
        "documento": "22222222222222",
        "nome": "Sender Company",
        "tipoDocumento": "2",
        "endereco": {
          "logradouro": "International Avenue",
          "estado": "EX",
          "municipio": "9707",
          "pais": "840"
        }
      }
    }
  ]
}
```