# Acceptance Test Protocol (postal market) V.2

# 0-Phase

# 1- test data

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| **Name** | **Value** |
| {PostOffice\_ID} | 131000 |
| Tariff zones (full list) | 1, 2, 3, 4, 5 |
| Time zones (range) | 1 - 12 |
| {Tariff\_Version} | 11.1.2 |
| {FRANKMACHINE\_ID} | 200500 |
| {Contractor\_ID} | e9cf212b-a010-11e6-97ed-2c59e5453bd0 |
| {Contract\_ID} | 00001010 |

# 2- integration requirements

### Requirements for requests and responses HTTP

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| **Requirement type** | **Implementation** |
| Authorizing requests SDU → ASU FM | Every request that is sent must contain a header  **X-API-Key**: apiKey где apiKey - unique identificator SDU  Value **X-API-Key:** postmartUat |
| Returning errors when accessing the SDU | In case of any error on the side, the SDU must respond with the following data structure  {  "code": 1000, // unique code  "message": "Readable message"  }  Where “code” - is a unique numeric error code, “message” - is a readable error message  **HTTP error codes:** 400 Bad Request - при бизнес ошибках (неверный ID сущности, неверные параметры) ожидается  404 Not Found - when requesting to get an entity by a specific identifier  500 Internal Server Error – other errors |

# 3- limitations

1. Order of the phases: 1 → 2
2. Order of the steps: 1 → 2 (phase 1) and 1 -11 (phase 2)
3. Inside the step, there is also the order of passing the cases starting from 1.
4. If the step is unsuccessful, the next step cannot be started.
5. On step 2-Step (Taxes data sending) there is an example of a request with a limited number of postal products. In fact, the number of postal products> 200 (248) and can be supplemented and changed according to the requirements of the Russian Post.

# 1-Phase

# 1-Step (PostOffice data sending)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | Registered PostOffice = {PostOffice\_ID} in ASU FM | New PostOffice {PostOffice\_ID} registered in RCS | Uploading PostOffice data | RCS ← ASUFM | /postOffices | {  "index": "{PostOffice\_ID}",  "name": "Москва",  "city": "Москва",  "timeZone": 2,  "tariffZone": 1,  "modified": "2021-01-01T09:00:00.001+03:00"  } | 200  ОК |  |  |
| 1.2 | Updated data of PostOffice = {PostOffice\_ID} in ASU FM (timeZone) | PostOffice data updated in the RCS {PostOffice\_ID} (timeZone=3) | Updating PostOffice data | RCS ← ASUFM | /postOffices | {  "index": "{PostOffice\_ID}",  "name": "Москва",  "city": "Москва",  "timeZone": 3,  "tariffZone": 1,  "modified": "2021-01-01T09:00:00.001+03:00"  } | 200  ОК |  |  |
| 1.3 | Updated data of PostOffice = {PostOffice\_ID} in ASU FM (incorrect timeZone value entered) | The data has not changed in RCS | Updating PostOffice data | RCS ← ASUFM | /postOffices | {  "index": "{PostOffice\_ID}",  "name": "Москва",  "city": "Москва",  "timeZone": 99,  "tariffZone": 1,  "modified": "2021-01-01T09:00:00.001+03:00"  } | 400  { "code": 9911, "message": "Invalid timezone value" } |  |  |
| 1.4 | Обновлены данные для ОПС = {PostOffice\_ID} в АСУ ФМ (введено некорректное значение tariffZone) | The data has not changed in RCS | Updating PostOffice data | RCS ← ASUFM | /postOffices | {  "index": "{PostOffice\_ID}",  "name": "Москва",  "city": "Москва",  "timeZone": 2,  "tariffZone": 9,  "modified": "2021-01-01T09:00:00.001+03:00"  } | 400  { "code": 9912, "message": "Invalid tarrifZone value" } |  |  |

# 2-Step (Taxes data sending)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | New tariffs registered in ASU FM (version {Tariff\_Version}) | Tariffs loaded in RCS | Sending new tariffs in RCS | RCS ← ASUFM | /taxes | {  "version": "{Tariff\_Version}",  "applyDate": "2021-10-01T00:00:00.000Z",  "publishDate": "2021-06-30T07:13:38.041Z",  "description": "Тарифы на 4 квартал 2021",  "source": "ИС Тарификатор - АТиКС",  "details": [  {  "product": {  "code": "6100",  "name": "Почтовая карточка",  "mailType": 6,  "mailCtg": 0,  "maxWeight": 20,  "transType": "ANY",  "regionType": "DOMESTIC",  "regionZone": 1,  "distanceType": "AFTER\_2000",  "labelRu": "Карточка простая внутренняя",  "isPostalMarketOnly": false,  "modified": "2021-01-01T09:00:00.001+03:00"  },  "tarif": {  "type": "FIXED",  "fixedValue": 18  },"modified": "2021-01-01T09:00:00.001+03:00"  },  {  "product": {  "code": "6101",  "name": "Почтовая карточка",  "mailType": 6,  "mailCtg": 1,  "maxWeight": 20,  "transType": "ANY",  "regionType": "DOMESTIC",  "regionZone": 1,  "distanceType": "AFTER\_2000",  "labelRu": "Карточка заказная внутренняя",  "isPostalMarketOnly": false,  "modified": "2021-01-01T09:00:00.001+03:00"  },  "tarif": {  "type": "FIXED",  "fixedValue": 44  },"modified": "2021-01-01T09:00:00.001+03:00"  },  {  "product": {  "code": "2100",  "name": "Письмо",  "mailType": 2,  "mailCtg": 0,  "maxWeight": 100,  "transType": "ANY",  "regionType": "DOMESTIC",  "regionZone": 1,  "distanceType": "AFTER\_2000",  "labelRu": "Письмо простое внутреннее",  "isPostalMarketOnly": false,  "modified": "2021-01-01T09:00:00.001+03:00"  },  "tarif": {  "type": "WEIGHT",  "weight": [  {  "from": 0,  "to": 20,  "value": 24  }  ],  "increment": {  "after": 20,  "every": 20,  "value": 3  }  },"modified": "2021-01-01T09:00:00.001+03:00"  },  {  "product": {  "code": "2101",  "name": "Письмо",  "mailType": 2,  "mailCtg": 1,  "maxWeight": 100,  "transType": "ANY",  "regionType": "DOMESTIC",  "regionZone": 1,  "distanceType": "AFTER\_2000",  "labelRu": "Письмо заказное внутреннее",  "isPostalMarketOnly": false,  "modified": "2021-01-01T09:00:00.001+03:00"  },  "tarif": {  "type": "WEIGHT",  "weight": [  {  "from": 0,  "to": 20,  "value": 56  }  ],  "increment": {  "after": 20,  "every": 20,  "value": 3  }  },"modified": "2021-01-01T09:00:00.001+03:00"  },  {  "product": {  "code": "2210",  "name": "Письмо",  "mailType": 2,  "mailCtg": 0,  "maxWeight": 2000,  "transType": "ANY",  "regionType": "INTERNATIONAL",  "regionZone": 1,  "distanceType": "AFTER\_2000",  "labelRu": "Письмо простое международное (исходящее)",  "isPostalMarketOnly": false,  "modified": "2021-01-01T09:00:00.001+03:00"  },  "tarif": {  "type": "WEIGHT",  "weight": [  {  "from": 0,  "to": 20,  "value": 52  },  {  "from": 21,  "to": 100,  "value": 100  },  {  "from": 101,  "to": 250,  "value": 220  },  {  "from": 251,  "to": 500,  "value": 420.50  },  {  "from": 501,  "to": 1000,  "value": 780  },  {  "from": 1001,  "to": 2000,  "value": 1265  }  ]  },"modified": "2021-01-01T09:00:00.001+03:00"  },  {  "product": {  "code": "2211",  "name": "Письмо",  "mailType": 2,  "mailCtg": 1,  "maxWeight": 2000,  "transType": "ANY",  "regionType": "INTERNATIONAL",  "regionZone": 1,  "distanceType": "AFTER\_2000",  "contractName": null,  "labelRu": "Письмо заказное международное (исходящее)",  "isPostalMarketOnly": false,  "modified": "2021-01-01T09:00:00.001+03:00"  },  "tarif": {  "type": "WEIGHT",  "weight": [  {  "from": 0,  "to": 20,  "value": 232  },  {  "from": 21,  "to": 100,  "value": 280  },  {  "from": 101,  "to": 250,  "value": 400  },  {  "from": 251,  "to": 500,  "value": 600  },  {  "from": 501,  "to": 1000,  "value": 960  },  {  "from": 1001,  "to": 2000,  "value": 1445  }  ]  },"modified": "2021-01-01T09:00:00.001+03:00"  }    ],  "modified": "2021-01-01T09:00:00.001+03:00"  } | 200  ОК |  |  |
| 1.2 | Successfully completed "Sending new tariffs to RCS" | Request successful | Sending confirmation of tariffs upload to в RCS | RCS → ASUFM | /rateTables | {  "taxVersion": "{Tariff\_Version}",  "status": true,  "rcsVersions": ["{Tariff\_Version}"],  "timestamp": "2021-01-01T09:00:00.001+03:00"  } | 204  ОК |  |  |
| 1.3 | An attempt to send a request with an incorrect version of the tariffs | Request rejected | Sending confirmation of tariff upload to RCS (with incorrect tariff version) | RCS → ASUFM | /rateTables | {  "taxVersion": "22.1.0",  "status": true,  "rcsVersions": ["22.1.0"],  "timestamp": "2021-01-01T09:00:00.001+03:00"  } | 400 Bad Reques  { "code": 1708, "message": "Tax version does not exist" } |  |  |

# 2-Phase

# 1-Step (FM authorisation)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | 1. FM {FRANKMACHINE\_ID} registered in ASU FM 2. PostOffice {PostOffice\_ID} registered in ASU FM | FM {FRANKMACHINE\_ID} is successfully authorized in ASUFM for PostOffice {PostOffice\_ID} | Authorization FM {FRANKMACHINE\_ID} | RCS → ASUFM | /frankMachines/{FRANKMACHINE\_ID}/auth | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00", "postOffice": "{PostOffice\_ID}"  } | 204  OK |  |  |
| 1.2 | 1. FM {FRANKMACHINE\_ID} is successfully authorized in ASUFM | In RCS {FRANKMACHINE\_ID} is in status BLOCKED | Change FM status (lock) | RCS ← ASUFM | /frankMachines/{FRANKMACHINE\_ID}/changeStatus | {  "status": "BLOCKED",  "postOffice": "{PostOffice\_ID}"  } | 200  ОК |  |  |
| 2.1 | 1. FM {FRANKMACHINE\_ID} is NOT authorized in ASUFM 2. PostOffice {PostOffice\_ID} registered in ASU FM | The data has not changed in ASUFM | Authorization FM {FRANKMACHINE\_ID} | RCS → ASUFM | /frankMachines/{WRONG\_FRANKMACHINE\_ID}/auth | {  "id": "{WRONG\_FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00", "postOffice": "{PostOffice\_ID}"  } | 404  {     "code": 1317,     "message": "FM not found" } |  |  |
| 2.2 | 1. FM {FRANKMACHINE\_ID} is successfully authorized in ASUFM 2. PostOffice 131999 NOT registered in ASUFM | The data has not changed in ASUFM | Authorization FM {FRANKMACHINE\_ID} for PostOffice 131999 | RCS → ASUFM | /frankMachines/{FRANKMACHINE\_ID}/auth | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00", "postOffice": "131999"  } | 400  { "code": 1316 "message": "Postoffice not found" } |  |  |

# 2-Step (FM data sending)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | Successfully completed "Change FM status (lock)" | Successful request | Sending FM {FRANKMACHINE\_ID} data | RCS → ASUFM | /frankMachines | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "BLOCKED",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "STATUS",  "error": {}  } | 200  ОК  {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "BLOCKED",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "STATUS",  "error": {}  } |  |  |
| 1.2 |  | Successful request | Sending FM {FRANKMACHINE\_ID} data | RCS → ASUFM | /frankMachines | TARRIF  {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "BLOCKED",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "RATE\_TABLE\_UPDATE",  "error": {}  } | 200  ОК  {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "BLOCKED",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "RATE\_TABLE\_UPDATE",  "error": {}  } |  |  |
| 1.3 | Successfully completed "Change FM status (lock)" | Successful request | Sending a public key FM {FRANKMACHINE\_ID} | RCS → ASUFM | /frankMachines/{FRANKMACHINE\_ID}/publicKey | {  "key": "-----BEGIN PUBLIC KEY----- MEkwEwYHKoZIzj0CAQYIKoZIzj0DAQEDMgAHxZMuhGUvOwc6GKT6Y9V6+uSQmiLW 9vCO4A1xy7qquqrNFmPlsQhPMZUZ62HBKDeH -----END PUBLIC KEY-----",  "revision": 1,  "expireDate": "2031-06-24T18:01:05.535Z"  } | 204  ОК |  |  |
| 2.1 |  | In RCS FM {FRANKMACHINE\_ID} is in status DEMO | Change FM status (DEMO) | RCS ← ASUFM | /frankMachines/{FRANKMACHINE\_ID}/changeStatus | { "status": "DEMO", "postOffice": "{PostOffice\_ID}"} | 200  ОК |  |  |
| 2.2 |  | Successful request | Sending FM {FRANKMACHINE\_ID} data | RCS → ASUFM | /frankMachines | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "DEMO",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "STATUS",  "error": {}  } | 200  ОК  {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "DEMO",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "RATE\_TABLE\_UPDATE",  "error": {}  } |  |  |
| 3.1 |  | In RCS {FRANKMACHINE\_ID} is in status ENABLED | Change FM status (ENABLED) | RCS ← ASUFM | /frankMachines/{FRANKMACHINE\_ID}/changeStatus | { "status": "ENABLED", "postOffice": "{PostOffice\_ID}"} | 200  ОК |  |  |
| 3.2 |  | Successful request | Sending FM {FRANKMACHINE\_ID} data | RCS → ASUFM | /frankMachines | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "ENABLED",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "STATUS",  "error": {}  } | 200  ОК  {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "ENABLED",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "RATE\_TABLE\_UPDATE",  "error": {}  } |  |  |
| 4.1 | FM {WRONG\_FRANKMACHINE\_ID} is NOT authorized in ASUFM (also not present in RCS) | Data has not changed in RCS | Change FM {WRONG\_FRANKMACHINE\_ID} status | RCS ← ASUFM | /frankMachines/{WRONG\_FRANKMACHINE\_ID}/changeStatus | { "status": "BLOCKED", "postOffice": "{PostOffice\_ID}"} | 404 Not found  { "code": 9912, "message": "FM not found" } |  |  |
| 4.2 | FM {WRONG\_FRANKMACHINE\_ID} (is NOT registered) is in status ENABLED | The data has not changed in ASUFM | Change FM status to nonexistent | RCS → ASUFM | /frankMachines | {  "id": "{WRONG\_FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "ENABLED",  "postOffice": "{PostOffice\_ID}",  "taxVersion": "{Tariff\_Version}",  "event": "STATUS",  "error": {}  } | 404 Not found  { "code": 1317, "message": "FM not found" } |  |  |

# 3-Step (Customer data sending)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | A new contract has been registered in ASUFM | In RCS a new contract is registered | Uploading data (update) about FM contracts | RCS ← ASUFM | /contracts | {  "code": "{Contract\_ID}",  "name": "КР/2249",  "enable": true,  "customer": {  "id": "14147657-18d7-484e-8bdd-483cdb780fe5",  "name": "Банка ВТБ (публичное акционерное общество)",  "innRu": "7702070139",  "kppRu": "540643001",  "legalAddress": "191144, город Санкт-Петербург, Дегтярный переулок, дом 11 литер а",  "officeAddress": "191144, город Санкт-Петербург, Дегтярный переулок, дом 11 литер а",  "modified": "2021-01-01T09:00:00.001+03:00"  },  "postOffices": [  {  "index": "{PostOffice\_ID}"  }  ],  "modified": "2021-01-01T09:00:00.001+03:00"  } | 200  ОК |  |  |
| 1.2 | BLocked contract in ASUFM | Blocked contract in RCS | Uploading data (update) about FM contracts | RCS ← ASUFM | /contracts | {  "code": "{Contract\_ID}",  "name": "КР/2249",  "enable": false,  "customer": {  "id": "{Contractor\_ID}",  "name": "Банка ВТБ (публичное акционерное общество)",  "innRu": "7702070139",  "kppRu": "540643001",  "legalAddress": "191144, город Санкт-Петербург, Дегтярный переулок, дом 11 литер а",  "officeAddress": "191144, город Санкт-Петербург, Дегтярный переулок, дом 11 литер а",  "modified": "2021-01-01T09:00:00.001+03:00"  },  "postOffices": [  {  "index": "{PostOffice\_ID}"  }  ],  "modified": "2021-01-02T09:00:00.001+03:00"  } | 200  ОК |  |  |
| 1.3 | Unlocked contract in ASUFM | the contract is unlocked in RCS | Uploading data (update) about FM contracts | RCS ← ASUFM | /contracts | {  "code": "{Contract\_ID}",  "name": "КР/2249",  "enable": true,  "customer": {  "id": "{Contractor\_ID}",  "name": "Банка ВТБ (публичное акционерное общество)",  "innRu": "7702070139",  "kppRu": "540643001",  "legalAddress": "191144, город Санкт-Петербург, Дегтярный переулок, дом 11 литер а",  "officeAddress": "191144, город Санкт-Петербург, Дегтярный переулок, дом 11 литер а",  "modified": "2021-01-01T09:00:00.001+03:00"  },  "postOffices": [  {  "index": "{PostOffice\_ID}"  }  ],  "modified": "2021-01-03T09:00:00.001+03:00"  } | 200  ОК |  |  |
| 1.4 | Re-sending the blocking of the contract with the modified date <unblocking date (clause 1.3) | Contract status in RCS has not changed (unlocked) | Uploading data (update) about FM contracts | RCS ← ASUFM | /contracts | {  "code": "{Contract\_ID}",  "name": "БАНК ВТБ (ПУБЛИЧНОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО) - договор №25/2021",  "enable": false,  "customer": {  "id": "{Contractor\_ID}",  "name": "БАНК ВТБ (ПУБЛИЧНОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО)",  "innRu": "7702070139",  "kppRu": "783501001",  "legalAddress": "191144, город Санкт-Петербург, Дегтярный переулок, дом 11 литер а",  "officeAddress": "191144, город Санкт-Петербург, Дегтярный переулок, дом 11 литер а",  "modified": "2021-01-01T09:00:00.001+03:00"  },  "postOffices": [  {  "index": "{PostOffice\_ID}"  }  ],  "modified": "2021-01-02T09:00:00.001+03:00"  } | 200 OK |  |  |

# 4-Step (Customer balance data sending)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | Contract balance is filled up in ASUFM | Contact balance is filled up with 1000 rubles in RCS | Synchronization of the balance of the contract | RCS ← ASUFM | /contracts/{Contract\_ID}/balance | {  "contractCode": "{Contract\_ID}",  "current": 1000,  "consolidate": 1000,  "operationId": "f8d0a656-0477-4940-83ff-a57297dabcee",  "modified": "2021-06-29T07:44:43.663Z"  } | 200  ОК |  |  |
| 1.2 | Re-sending the balance of the contract with the date modified < date of filling up the balance (clause 1.1) | Contact balance is NOT changed in RCS (1000 rubles) | Synchronization of the balance of the contract | RCS ← ASUFM | /contracts/{Contract\_ID}/balance | {  "contractCode": "{Contract\_ID}",  "current": 3000,  "consolidate": 3000,  "operationId": "f4b1745b-8498-4034-aa87-644ba8f9ff70",  "modified": "2021-06-20T07:44:43.663Z"  } | 200 OK |  |  |
| 1.3 | The balance of a nonexistent contract was filled up in ASUFM | The Data has not changed in ASUFM | Synchronization of the balance of the contract | RCS ← ASUFM | /contracts/00001011/balance | {  "contractCode": "00001011",  "current": 1000,  "consolidate": 1000,  "operationId": "8d2ef85b-3a82-44fb-ba2e-8b643dc03504",  "modified": "2021-06-29T07:44:43.663Z"  } | 404 Not Found  {   "code": 9913,   "message": "Contract not found" } |  |  |

# 5-Step (Foreseen request)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | 1. FM {FRANKMACHINE\_ID} is authorized and NOT blocked in ASUFM 2. PostOffice {PostOffice\_ID} is registered in ASUFM 3. The Contract has a free balance of 1000 rubles | Request completed successfully | Request for franking on FM in the amount of RUB 500 | RCS → ASUFM | /foreseens | {  "id": "11ca1090-440c-4f84-b101-2dd629f0240c",  "postOffice": "{PostOffice\_ID}",  "userId": "Admin",  "contractCode": "{Contract\_ID}",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "{FRANKMACHINE\_ID}",  "taxVersion": "{Tariff\_Version}",  "totalAmount": 500  } | 200  ОК  {  "contractCode": "{Contract\_ID}",  "current": 500,  "consolidate": 1000,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } |  |  |
| 1.2 | 1. The contract has a free balance of 500 rubles | Request rejected | Request for franking on FM in the amount of RUB 1000 | RCS → ASUFM | /foreseens | {  "id": "e1565a57-5b62-4e4b-a58b-184736c900d9",  "postOffice": "{PostOffice\_ID}",  "userId": "Admin",  "contractCode": "{Contract\_ID}",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 1000  }  ],  "frankMachineId": "{FRANKMACHINE\_ID}",  "taxVersion": "{Tariff\_Version}",  "totalAmount": 1000  } | 400 Bad request  {   "code": 1511,   "message": "Not enough money" } |  |  |
| 1.3 | 1. FM {FRANKMACHINE\_ID} is authorized and blocked in ASUFM 2. PostOffice {PostOffice\_ID} is registered in ASUFM 3. The Contract has a free balance of 1000 rubles | Request rejected | Request for franking on FM in the amount of RUB 500 | RCS → ASUFM | /foreseens | {  "id": "e1565a57-5b62-4e4b-a58b-184736c900d9",  "postOffice": "{PostOffice\_ID}",  "userId": "Admin",  "contractCode": "{Contract\_ID}",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 1000  }  ],  "frankMachineId": "{FRANKMACHINE\_ID}",  "taxVersion": "{Tariff\_Version}",  "totalAmount": 1000  } | 400 Bad request  {   "code": 1606,   "message": "Frank machine is not enabled" } |  |  |
| 1.4 | 1. Conract is blocked | Request rejected |  | RCS → ASUFM | /foreseens | {  "id": "e1565a57-5b62-4e4b-a58b-184736c900d9",  "postOffice": "{PostOffice\_ID}",  "userId": "Admin",  "contractCode": "{Contract\_ID}",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 1000  }  ],  "frankMachineId": "{FRANKMACHINE\_ID}",  "taxVersion": "{Tariff\_Version}",  "totalAmount": 1000  } | 400 Bad request  {   "code": 1512,   "message": "Contract is disabled"  } |  |  |
| 1.5 |  | Request rejected |  | RCS → ASUFM | /foreseens | {  "id": "e1565a57-5b62-4e4b-a58b-184736c900d9",  "postOffice": "{PostOffice\_ID}",  "userId": "Admin",  "contractCode": "{Contract\_ID}",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 1000  }  ],  "frankMachineId": "{FRANKMACHINE\_ID}",  "taxVersion": "22.1.0",  "totalAmount": 1000  } | 400 Bad request  { "code": 1708, "message": "Tax version does not exist" } |  |  |

# 6-Step (Cancel request)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | The task 11ca1090-440c-4f84-b101-2dd629f0240c is registered in ASUFM | Request canceled in ASUFM | Cancel the task 11ca1090-440c-4f84-b101-2dd629f0240c | RCS → ASUFM | /foreseens/11ca1090-440c-4f84-b101-2dd629f0240c/cancel | {  "message": "string"  } | 200  {  "contractCode": "{Contract\_ID}",  "current": 1000,  "consolidate": 1000,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } |  |  |
| 1.2 | The task 52318191-d98b-4720-b6af-0efaf672746e is NOT exist in ASUFM | Request rejected | Canceling a non-existent task 52318191-d98b-4720-b6af-0efaf672746e | RCS → ASUFM | /foreseens/{foreseenId}/cancel |  | 400 Bad request  {   "code": 1510,   "message": "Foreseen with id not found" } |  |  |

# 7-Step (Foreseen request)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1. | Contract  {Contract\_ID} has free balance of 1000 rubles | Request rejected | Request for farnking on FM in the amount of RUB 500 for a non-existent PostOffice = 131001 | RCS → ASUFM | /foreseens | {  "id": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "131001",  "userId": "Admin",  "contractCode": "{Contract\_ID}",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "{FRANKMACHINE\_ID}",  "taxVersion": "{Tariff\_Version}",  "totalAmount": 500  } | 400 Bad request  { "code": 1514, "message": "Contract is not exist" } |  |  |
| 1.2 | Contract  {Contract\_ID} has free balance of 1000 rubles | Request rejected | Request for farnking on FM in the amount of RUB 500 for a non-existent FM={WRONG\_FRANKMACHINE\_ID} | RCS → ASUFM | /foreseens | {  "id": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "{PostOffice\_ID}",  "userId": "Admin",  "contractCode": "{Contract\_ID}",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "{WRONG\_FRANKMACHINE\_ID}",  "taxVersion": "{Tariff\_Version}",  "totalAmount": 500  } | 404 Not found  { "code": 1317, "message": "FM not found" } |  |  |
| 1.2 | Contract  {Contract\_ID} has free balance of 1000 rubles | Request rejected | Request for farnking on FM in the amount of RUB 500 for a non-existent contractCode=00001019 | RCS → ASUFM | /foreseens | {  "id": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "{PostOffice\_ID}",  "userId": "Admin",  "contractCode": "00001019",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "{FRANKMACHINE\_ID}",  "taxVersion": "{Tariff\_Version}",  "totalAmount": 500  } | 400 Bad request  { "code": 1513, "message": "Contract is not exist" } |  |  |
| 2.1 | Contract  {Contract\_ID} has free balance of 1000 rubles | Request completed successfully | Request for farnking on FM in the amount of RUB 500 | RCS → ASUFM | /foreseens | {  "id": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "{PostOffice\_ID}",  "userId": "Admin",  "contractCode": "{Contract\_ID}",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "{FRANKMACHINE\_ID}",  "taxVersion": "{Tariff\_Version}",  "totalAmount": 500  } | 200  ОК  {  "contractCode": "{Contract\_ID}",  "current": 500,  "consolidate": 1000,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } |  |  |

# 8-Step (Transaction request)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | The task of foreseenId=fd3a6990-3334-4778-a721-28a09963c7c1 is registered in ASUFM | Request rejected | Sending franking data for a non-existent PostOffice =131999 | RCS → ASUFM | /transactions | {  "id": "4fa85f64-5717-4562-b3fc-2c963f66afa6",  "foreseenId": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "131999",  "frankMachineId": "{FRANKMACHINE\_ID}",  "contractCode": "{Contract\_ID}",  "startDateTime": "2021-06-22T13:46:57.373Z",  "stopDateTime": "2021-06-22T13:46:57.373Z",  "userId": "Admin",  "creditVal": 0,  "amount": 50,  "count": 3,  "graphId": "string",  "taxVersion": "{Tariff\_Version}",  "franks": [  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116338000290021000060{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116339000290021000070{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116340000320021000080{Contract\_ID}"  }  ]  } | 400 Bad request  {     "code": 1610,     "message": "Postoffice not found" } |  |  |
| 1.2 | The task foreseenId=fd3a6990-3334-4778-a721-28a09963c7c1 is registered in ASUFM | Request rejected | Sending franking data for a non-existent FM =  {WRONG\_FRANKMACHINE\_ID} | RCS → ASUFM | /transactions | {  "id": "4fa85f64-5717-4562-b3fc-2c963f66afa6",  "foreseenId": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "{PostOffice\_ID}",  "frankMachineId": "{WRONG\_FRANKMACHINE\_ID}",  "contractCode": "{Contract\_ID}",  "startDateTime": "2021-06-22T13:46:57.373Z",  "stopDateTime": "2021-06-22T13:46:57.373Z",  "userId": "Admin",  "creditVal": 0,  "amount": 50,  "count": 3,  "graphId": "string",  "taxVersion": "{Tariff\_Version}",  "franks": [  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116338000290021000060{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116339000290021000070{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116340000320021000080{Contract\_ID}"  }  ]  } | 400 Bad request  {     "code": 1611,     "message": "FM not found" } |  |  |
| 1.3 | The task for foreseenId=fd3a6990-3334-4778-a721-28a09963c7c1 is registered in ASUFM | Request rejected | Sending franking data for a non-existent  contractCode  =  00001019 | RCS → ASUFM | /transactions | {  "id": "4fa85f64-5717-4562-b3fc-2c963f66afa6",  "foreseenId": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "{PostOffice\_ID}",  "frankMachineId": "{FRANKMACHINE\_ID}",  "contractCode": "00001019",  "startDateTime": "2021-06-22T13:46:57.373Z",  "stopDateTime": "2021-06-22T13:46:57.373Z",  "userId": "Admin",  "creditVal": 0,  "amount": 50,  "count": 3,  "graphId": "string",  "taxVersion": "{Tariff\_Version}",  "franks": [  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116338000290021000060{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116339000290021000070{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116340000320021000080{Contract\_ID}"  }  ]  } | 400 Bad request  {   "code": 1513,   "message": "Contract is not exist" } |  |  |
| 1.3 | The task for foreseenId=fd3a6990-3334-4778-a721-28a09963c7c1 is registered in ASUFM | Request rejected | Sending non-currency dmMessage | RCS → ASUFM |  | {  "id": "2e36d742-27e1-47fe-99f3-c3228bd46dd7",  "foreseenId": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "{PostOffice\_ID}",  "frankMachineId": "{FRANKMACHINE\_ID}",  "contractCode": "00001019",  "startDateTime": "2021-06-22T13:46:57.373Z",  "stopDateTime": "2021-06-22T13:46:57.373Z",  "userId": "Admin",  "creditVal": 0,  "amount": 50,  "count": 3,  "graphId": "string",  "taxVersion": "{Tariff\_Version}",  "franks": [  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072100060{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116339000290021000070{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116340000320021000080{Contract\_ID}"  }  ]  } | 400 Bad Request  {   "code": 1810,   "message": "Frank structure is not valid" } |  |  |
| 2.1 | The task foreseenId=fd3a6990-3334-4778-a721-28a09963c8c2 is registered in ASUFM | Request completed successfully | Sending franking data | RCS → ASUFM | /transactions | {  "id": "4fa85f64-5717-4562-b3fc-2c963f66afa6",  "foreseenId": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "{PostOffice\_ID}",  "frankMachineId": "{FRANKMACHINE\_ID}",  "contractCode": "{Contract\_ID}",  "startDateTime": "2021-06-22T13:46:57.373Z",  "stopDateTime": "2021-06-22T13:46:57.373Z",  "userId": "Admin",  "creditVal": 0,  "amount": 50,  "count": 3,  "graphId": "string",  "taxVersion": "{Tariff\_Version}",  "franks": [  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116338000290021000060{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116339000290021000070{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116340000320021000080{Contract\_ID}"  }  ]  } | 200  ОК  {  "contractCode": "{Contract\_ID}",  "current": 950,  "consolidate": 950,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } |  |  |
| 2.2 | The result of the task on foreseenId=fd3a6990-3334-4778-a721-28a09963c7c1 was previously sent to ASUFM | Request completed successfully, no new transaction created | Sending (re = repeated) franking data | RCS → ASUFM | /transactions | {  "id": "4fa85f64-5717-4562-b3fc-2c963f66afa6",  "foreseenId": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "{PostOffice\_ID}",  "frankMachineId": "{FRANKMACHINE\_ID}",  "contractCode": "{Contract\_ID}",  "startDateTime": "2021-06-22T13:46:57.373Z",  "stopDateTime": "2021-06-22T13:46:57.373Z",  "userId": "Admin",  "creditVal": 0,  "amount": 50,  "count": 3,  "graphId": "string",  "taxVersion": "{Tariff\_Version}",  "franks": [  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116338000290021000060{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116339000290021000070{Contract\_ID}"  },  {  "dmMessage": "!45!01NE643{PostOffice\_ID}12072110050001116340000320021000080{Contract\_ID}"  }  ]  } | 200 OK  {  "contractCode": "{Contract\_ID}",  "current": 950,  "consolidate": 950,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } |  |  |

# 9-Step (FM public key)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | {FRANKMACHINE\_ID} is successfully authorized in ASUFM | Request completed successfully | Public key {FRANKMACHINE\_ID} request | RCS ← ASUFM | /frankMachines/{FRANKMACHINE\_ID}/publicKey |  | 200  ОК |  |  |
| 1.2 | Successfully completed "Request for public key {FRANKMACHINE\_ID}" | Received new public key for {FRANKMACHINE\_ID} | Send public key {FRANKMACHINE\_ID} | RCS → ASUFM | /frankMachines/{FRANKMACHINE\_ID}/publicKey | {  "key": "-----BEGIN PUBLIC KEY----- MEkwEwYHKoZIzj0CAQYIKoZIzj0DAQEDMgAHxZMuhGUvOwc6GKT6Y9V6+uSQmiLW 9vCO4A1xy7qquqrNFmPlsQhPMZUZ62HBKDeH -----END PUBLIC KEY-----",  "revision": 2,  "expireDate": "2031-06-23T06:31:58.651Z"  } | 204  ОК |  |  |
| 2.1 | {WRONG\_FRANKMACHINE\_ID} is NOT authorized in ASUFM (also not exist in RCS) | Request rejected | Public key {WRONG\_FRANKMACHINE\_ID} request | RCS ← ASUFM | /frankMachines/{WRONG\_FRANKMACHINE\_ID}/publicKey |  | 404 Not found  {   "code": 9912,   "message": "FM not found" } |  |  |

# 10-Step (FM unauthorisation)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | {FRANKMACHINE\_ID} is authorized in ASUFM | {FRANKMACHINE\_ID} was successfully deauthorized in ASUFM | Deauthorize {FRANKMACHINE\_ID} | RCS → ASUFM | /frankMachines/{FRANKMACHINE\_ID}/unauth | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "ENABLED",  "taxVersion": "{Tariff\_Version}",  "postOffice": "{PostOffice\_ID}"  } | 204  OK |  |  |
| 1.2 | {FRANKMACHINE\_ID} is NOT authorized in ASUFM | Request rejected | Deauthorize {WRONG\_FRANKMACHINE\_ID} (not previously authorized) | RCS → ASUFM | /frankMachines/{WRONG\_FRANKMACHINE\_ID}/unauth | {  "id": "{WRONG\_FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "ENABLED",  "taxVersion": "{Tariff\_Version}",  "postOffice": "{PostOffice\_ID}"  } | 400  {     "code": 1318,     "message": "FM has not been authorized before" } |  |  |
| 1.3 |  | Request rejected | Deauthorize {FRANKMACHINE\_ID} (repeated) | RCS → ASUFM | /frankMachines/{FRANKMACHINE\_ID}/unauth | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "ENABLED",  "taxVersion": "{Tariff\_Version}",  "postOffice": "{PostOffice\_ID}"  } | 400  {     "code": 1319,     "message": "FM is already unauthorized" } |  |  |

# 11-Step (FM lost)

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| **№** | **Precondition** | **Postcondition** | **Case** | **Interaction** | **Contract** | **Request example** | **The answer is expected** | **Actual answer** | **Status (success / failure)** |
| 1.1 | {FRANKMACHINE\_ID} is deauthorized in ASUFM | Request successful | removal from service {FRANKMACHINE\_ID} | RCS → ASUFM | /frankMachines/{FRANKMACHINE\_ID}/lost | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "LOST",  "taxVersion": "{Tariff\_Version}",  "postOffice": "{PostOffice\_ID}"  } | 204  OK |  |  |
| 1.2 |  | Request rejected | removal from service {WRONG\_FRANKMACHINE\_ID} (not been previously authorized) | RCS → ASUFM | /frankMachines/{WRONG\_FRANKMACHINE\_ID}/lost | {  "id": "{WRONG\_FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "LOST",  "taxVersion": "{Tariff\_Version}",  "postOffice": "{PostOffice\_ID}"  } | ФМ не была авторизована  400  {     "code": 1318,     "message": "FM has not been authorized before" } |  |  |
| 1.3 |  | Request rejected | removal from service {FRANKMACHINE\_ID} (repeated) | RCS → ASUFM | /frankMachines/{FRANKMACHINE\_ID}/lost | {  "id": "{FRANKMACHINE\_ID}",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "LOST",  "taxVersion": "{Tariff\_Version}",  "postOffice": "{PostOffice\_ID}"  } | ФМ была выведена из эксплуатации  400  {     "code": 1320,     "message": "FM is already in LOST status" } |  |  |