# Acceptance Test Protocol (postal market) V.1

# 0-Phase

# 1- test data

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| **Наименование** | **Значение** |
| PostOffice | 131000 |
| Tariff zones (full list) | 1,2,3,4,5 |
| Time zones (range) | 1 - 12 |
| Tariff version (current) | 22.1.1 |
| FM | PM100500 |
| Counterparty (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 = 131000 in ASU FM | New PostOffice 131000 registered in RCS | Uploading PostOffice data | RCS（我们服务器）— ← ASUFM(俄罗斯服务器) | /postOffices | {  "index": "131000",  "name": "Москва",  "city": "Москва",  "timeZone": 2,  "tariffZone": 1,  "modified": "2021-01-01T09:00:00.001+03:00"  } | 200  ОК | {      "code": 200,      "object": "ok",      "ok": **true**  } | {      "code": 200,      "object": "ok",      "ok": **true**  } |
| 1.2 | Updated data of PostOffice = 131000 in ASU FM (timeZone) | PostOffice data updated in the RCS 131000 (timeZone=3) | Updating PostOffice data | RCS ← ASUFM | /postOffices | {  "index": "131000",  "name": "Москва",  "city": "Москва",  "timeZone": 3,  "tariffZone": 1,  "modified": "2021-01-01T09:00:00.001+03:00"  } | 200  ОК | {      "code": 200,      "object": "ok",      "ok": **true**  } | {      "code": 200,      "object": "ok",      "ok": **true**  } |
| 1.3 | Updated data of PostOffice = 131000 in ASU FM (incorrect timeZone value entered) | The data has not changed in RCS | Updating PostOffice data | RCS ← ASUFM | /postOffices | {  "index": "131000",  "name": "Москва",  "city": "Москва",  "timeZone": 99,  "tariffZone": 1,  "modified": "2021-01-01T09:00:00.001+03:00"  } | 400  { "code": 9911, "message": "Invalid timezone value" } | {      "code": 400,      "object": {          "code": 1104,          "message": "Invalid timezone value"      },      "ok": **false**  } | {      "code": 400,      "object": {          "code": 1104,          "message": "Invalid timezone value"      },      "ok": **false**  } |
| 1.4 | Обновлены данные для ОПС = 131000 в АСУ ФМ (введено некорректное значение tariffZone) | The data has not changed in RCS | Updating PostOffice data | RCS ← ASUFM | /postOffices | {  "index": "131000",  "name": "Москва",  "city": "Москва",  "timeZone": 2,  "tariffZone": 9,  "modified": "2021-01-01T09:00:00.001+03:00"  } | 400  { "code": 9912, "message": "Invalid tarrifZone value" } | {      "code": 400,      "object": {          "code": 1105,          "message": "Invalid tarrifZone value"      },      "ok": **false**  } | {      "code": 400,      "object": {          "code": 1105,          "message": "Invalid tarrifZone value"      },      "ok": **false**  } |

# 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 22.1.1) | Tariffs loaded in RCS | Sending new tariffs in RCS | RCS ← ASUFM | /taxes | {  "version": "22.1.1",  "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 | {      "code": 200,      "object": "ok",      "ok": **true**  } | success |
| 1.2 | Successfully completed "Sending new tariffs to RCS" | Request successful | Sending confirmation of tariffs upload to в RCS | RCS → ASUFM  机器触发我们server访问俄罗斯server | /rateTables | {  "taxVersion": "22.1.1",  "status": true,  "rcsVersions": ["22.1.1"],  "timestamp": "2021-01-01T09:00:00.001+03:00"  } | 204  ОК | ApiResponse(code=204, object=ok) |  |
| 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" } | 在CheckServiceProtocol中输出400 |  |

# 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 PM100500 registered in ASU FM 2. PostOffice 131000 registered in ASU FM | FM PM100500 is successfully authorized in ASUFM for PostOffice 131000 | Authorization FM PM100500 | RCS → ASUFM | /frankMachines/PM100500/auth | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00", "postOffice": "131000"  } | 204  OK | 在返回ApiResponse时输出：  204  OK |  |
| 1.2 | 1. FM PM100500 is successfully authorized in ASUFM | In RCS PM100500 is in status BLOCKED | Change FM status (lock) | RCS ← ASUFM | /frankMachines/PM100500/changeStatus | {  "status": "BLOCKED",  "postOffice": "131000"  } | 200  ОК | {      "code": 200,      "object": "ok",      "ok": **true**  } |  |
| 2.1 | 1. FM PM100500 is NOT authorized in ASUFM 2. PostOffice 131000 registered in ASU FM | The data has not changed in ASUFM | Authorization FM PM100500 | RCS → ASUFM | /frankMachines/PM100501/auth | {  "id": "PM100501",  "dateTime": "2021-01-01T09:00:00.001+03:00", "postOffice": "131000"  } | 404  {     "code": 1317,     "message": "FM not found" } | RcsApiException error = Unknown FM Id |  |
| 2.2 | 1. FM PM100500 is successfully authorized in ASUFM 2. PostOffice 131999 NOT registered in ASUFM | The data has not changed in ASUFM | Authorization FM PM100500 for PostOffice 131999 | RCS → ASUFM | /frankMachines/PM100500/auth | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00", "postOffice": "131999"  } | 400  { "code": 1316 "message": "Postoffice not found" } | 模拟返回成功值  输出对应code和message |  |

# 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 PM100500 data | RCS → ASUFM | /frankMachines | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "BLOCKED",  "postOffice": "131000",  "taxVersion": "22.1.1",  "event": "STATUS",  "error": {}  } | 200  ОК  {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "BLOCKED",  "postOffice": "131000",  "taxVersion": "22.1.1",  "event": "STATUS",  "error": {}  } | ServiceInvokeRussia输出200 |  |
| 1.2 |  | Successful request | Sending FM PM100500 data | RCS → ASUFM | /frankMachines | TARRIF  {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "BLOCKED",  "postOffice": "131000",  "taxVersion": "22.1.1",  "event": "RATE\_TABLE\_UPDATE",  "error": {}  } | 200  ОК  {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "BLOCKED",  "postOffice": "131000",  "taxVersion": "22.1.1",  "event": "RATE\_TABLE\_UPDATE",  "error": {}  } |  |  |
| 1.3 | Successfully completed "Change FM status (lock)" | Successful request | Sending a public key FM PM100500 | RCS → ASUFM | /frankMachines/PM100500/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 PM100500 is in status DEMO | Change FM status (DEMO) | RCS ← ASUFM | /frankMachines/PM100500/changeStatus | { "status": "DEMO", "postOffice": "131000"} | 200  ОК | {      "code": 200,      "object": "ok",      "ok": **true**  } |  |
| 2.2 |  | Successful request | Sending FM PM100500 data | RCS → ASUFM | /frankMachines | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "DEMO",  "postOffice": "131000",  "taxVersion": "22.1.1",  "event": "STATUS",  "error": {}  } | 200  ОК  {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "DEMO",  "postOffice": "131000",  "taxVersion": "22.1.1",  "event": "RATE\_TABLE\_UPDATE",  "error": {}  } | ServiceInvokeRussia输出200 |  |
| 3.1 |  | In RCS PM100500 is in status ENABLED | Change FM status (ENABLED) | RCS ← ASUFM | /frankMachines/PM100500/changeStatus | { "status": "ENABLED", "postOffice": "131000"} | 200  ОК | {      "code": 200,      "object": "ok",      "ok": **true**  } |  |
| 3.2 |  | Successful request | Sending FM PM100500 data | RCS → ASUFM | /frankMachines | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "ENABLED",  "postOffice": "131000",  "taxVersion": "22.1.1",  "event": "STATUS",  "error": {}  } | 200  ОК  {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "ENABLED",  "postOffice": "131000",  "taxVersion": "22.1.1",  "event": "RATE\_TABLE\_UPDATE",  "error": {}  } |  |  |
| 4.1 | FM PM100501 is NOT authorized in ASUFM (also not present in RCS) | Data has not changed in RCS | Change FM PM100501 status | RCS ← ASUFM | /frankMachines/PM100501/changeStatus | { "status": "BLOCKED", "postOffice": "131000"} | 404 Not found  { "code": 9912, "message": "FM not found" } | {      "code": 400,      "object": {          "code": 1004,          "message": "Unknown FM Id "      },      "ok": **false**  } |  |
| 4.2 | FM PM100501 (is NOT registered) is in status ENABLED | The data has not changed in ASUFM | Change FM status to nonexistent | RCS → ASUFM | /frankMachines | {  "id": "PM100501",  "dateTime": "2021-01-01T09:00:00.001+03:00",  "status": "ENABLED",  "postOffice": "131000",  "taxVersion": "22.1.1",  "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": "00001010",  "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": "131000"  }  ],  "modified": "2021-01-01T09:00:00.001+03:00"  } | 200  ОК | ！Cause: com.mysql.cj.jdbc.exceptions.MysqlDataTruncation: Data truncation: Data too long for column 'name' at row 1  rcs\_contract.name的varchar(50)改为varchar(100)  ！Cause: java.sql.SQLException: Field 'inn\_ru' doesn't have a default value  Rcs\_customer.inn\_ru和kpp\_ru的notnull改为允许null | {      "code": 200,      "object": "ok",      "ok": **true**  }  数据库插入成功 |
| 1.2 | BLocked contract in ASUFM | Blocked contract in RCS | Uploading data (update) about FM contracts | RCS ← ASUFM | /contracts | {  "code": "00001010",  "name": "КР/2249",  "enable": false,  "customer": {  "id": "e9cf212b-a010-11e6-97ed-2c59e5453bd0",  "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": "131000"  }  ],  "modified": "2021-01-02T09:00:00.001+03:00"  } | 200  ОК |  | {      "code": 200,      "object": "ok",      "ok": **true**  } |
| 1.3 | Unlocked contract in ASUFM | the contract is unlocked in RCS | Uploading data (update) about FM contracts | RCS ← ASUFM | /contracts | {  "code": "00001010",  "name": "КР/2249",  "enable": true,  "customer": {  "id": "e9cf212b-a010-11e6-97ed-2c59e5453bd0",  "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": "131000"  }  ],  "modified": "2021-01-03T09:00:00.001+03:00"  } | 200  ОК |  | {      "code": 200,      "object": "ok",      "ok": **true**  } |
| 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": "00001010",  "name": "БАНК ВТБ (ПУБЛИЧНОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО) - договор №25/2021",  "enable": false,  "customer": {  "id": "e9cf212b-a010-11e6-97ed-2c59e5453bd0",  "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": "131000"  }  ],  "modified": "2021-01-02T09:00:00.001+03:00"  } | 200 OK |  | {      "code": 200,      "object": "ok",      "ok": **true**  } |

# 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/00001010/balance | {  "contractCode": "00001010",  "current": 1000,  "consolidate": 1000,  "operationId": "f8d0a656-0477-4940-83ff-a57297dabcee",  "modified": "2021-06-29T07:44:43.663Z"  } | 200  ОК |  | {      "code": 200,      "object": "ok",      "ok": **true**  }  balance和contract保存或更新成功 |
| 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/00001010/balance | {  "contractCode": "00001010",  "current": 3000,  "consolidate": 3000,  "operationId": "f4b1745b-8498-4034-aa87-644ba8f9ff70",  "modified": "2021-06-20T07:44:43.663Z"  } | 200 OK |  | {      "code": 200,      "object": "ok",      "ok": **true**  } |
| 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" } |  | {      "code": 400,      "object": {          "code": 1103,          "message": "contract is not exist"      },      "ok": **false**  } |

# 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 PM100500 is authorized and NOT blocked in ASUFM 2. PostOffice 131000 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": "131000",  "userId": "Admin",  "contractCode": "00001010",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "PM100500",  "taxVersion": "22.1.1",  "totalAmmount": 500  } | 200  ОК  {  "contractCode": "00001010",  "current": 500,  "consolidate": 1000,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } | 调用俄罗斯接口输出200 | Success  "userId": "Admin"确认下是否一致  Products暂时无法得到（连接俄罗斯）  注：totalAmmount在代码中为字串 |
| 1.2 | 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": "131000",  "userId": "Admin",  "contractCode": "00001010",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 1000  }  ],  "frankMachineId": "PM100500",  "taxVersion": "22.1.1",  "totalAmmount": 1000  } | 400 Bad request  {   "code": 1511,   "message": "Not enough money" } | "totalAmmount": 1000，  fmTotalAmount为10.0  Contract表current为0  MoneyTooBig(8,"订单金额超过了合同金额"), | Success |
| 1.3 | 1. FM PM100500 is authorized and blocked in ASUFM 2. PostOffice 131000 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": "131000",  "userId": "Admin",  "contractCode": "00001010",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 1000  }  ],  "frankMachineId": "PM100500",  "taxVersion": "22.1.1",  "totalAmmount": 1000  } | 400 Bad request  {   "code": 1606,   "message": "Frank machine is not enabled" } | 服务器输出当前状态为：BLOCKED | Success |
| 1.4 | 1. Conract is blocked | Request rejected |  | RCS → ASUFM | /foreseens | {  "id": "e1565a57-5b62-4e4b-a58b-184736c900d9",  "postOffice": "131000",  "userId": "Admin",  "contractCode": "00001010",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 1000  }  ],  "frankMachineId": "PM100500",  "taxVersion": "22.1.1",  "totalAmmount": 1000  } | 400 Bad request  {   "code": 1512,   "message": "Contract is disabled"  } | 前置条件blocked理解为enable置为0  服务器输出合同状态为0，即disabled | Success |
| 1.5 |  | Request rejected |  | RCS → ASUFM | /foreseens | {  "id": "e1565a57-5b62-4e4b-a58b-184736c900d9",  "postOffice": "131000",  "userId": "Admin",  "contractCode": "00001010",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 1000  }  ],  "frankMachineId": "PM100500",  "taxVersion": "22.1.0",  "totalAmmount": 1000  } | 400 Bad request  { "code": 1708, "message": "Tax version does not exist" } | 服务器输出  Tax version does not exist | Success |

# 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": "00001010",  "current": 1000,  "consolidate": 1000,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } | PrintJob的flow置为1  200 | Success |
| 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" } | 服务器报出33foreseen Id 不存在 | Success |

# 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  00001010 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": "00001010",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "PM100500",  "taxVersion": "22.1.1",  "totalAmmount": 500  } | 400 Bad request  { "code": 1514, "message": "Contract is not exist" } | 成功输出PostOffice is not exist | Success |
| 1.2 | Contract  00001010 has free balance of 1000 rubles | Request rejected | Request for farnking on FM in the amount of RUB 500 for a non-existent FM=PM100501 | RCS → ASUFM | /foreseens | {  "id": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "131000",  "userId": "Admin",  "contractCode": "00001010",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "PM100501",  "taxVersion": "22.1.1",  "totalAmmount": 500  } | 404 Not found  { "code": 1317, "message": "FM not found" } | 成功输出  **Unknown FM Id PM100501** | Success |
| 1.2 | Contract  00001010 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": "131000",  "userId": "Admin",  "contractCode": "00001019",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "PM100500",  "taxVersion": "22.1.1",  "totalAmmount": 500  } | 400 Bad request  { "code": 1513, "message": "Contract is not exist" } | 服务器成功输出  contract is not exist | Success |
| 2.1 | Contract  00001010 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": "131000",  "userId": "Admin",  "contractCode": "00001010",  "totalCount": 10,  "products": [  {  "productCode": "2100",  "count": 10,  "weight": 0,  "amount": 500  }  ],  "frankMachineId": "PM100500",  "taxVersion": "22.1.1",  "totalAmmount": 500  } | 200  ОК  {  "contractCode": "00001010",  "current": 500,  "consolidate": 1000,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } | ok |  |

# 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": "PM100500",  "contractCode": "00001010",  "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": "22.1.1",  "franks": [  {  "dmMessage": "!45!01NE6431310001207211005000111633800029002100006000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111633900029002100007000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111634000032002100008000001010"  }  ]  } | 400 Bad request  {     "code": 1610,     "message": "Postoffice not found" } | Ok |  |
| 1.2 | The task foreseenId=fd3a6990-3334-4778-a721-28a09963c7c1 is registered in ASUFM | Request rejected | Sending franking data for a non-existent FM =  PM100501 | RCS → ASUFM | /transactions | {  "id": "4fa85f64-5717-4562-b3fc-2c963f66afa6",  "foreseenId": "fd3a6990-3334-4778-a721-28a09963c7c1",  "postOffice": "131000",  "frankMachineId": "PM100501",  "contractCode": "00001010",  "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": "22.1.1",  "franks": [  {  "dmMessage": "!45!01NE6431310001207211005000111633800029002100006000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111633900029002100007000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111634000032002100008000001010"  }  ]  } | 400 Bad request  {     "code": 1611,     "message": "FM not found" } | ok |  |
| 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": "131000",  "frankMachineId": "PM100500",  "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": "22.1.1",  "franks": [  {  "dmMessage": "!45!01NE6431310001207211005000111633800029002100006000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111633900029002100007000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111634000032002100008000001010"  }  ]  } | 400 Bad request  {   "code": 1513,   "message": "Contract is not exist" } | ok |  |
| 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": "131000",  "frankMachineId": "PM100500",  "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": "22.1.1",  "franks": [  {  "dmMessage": "!45!01NE6431310001207210006000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111633900029002100007000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111634000032002100008000001010"  }  ]  } | 400 Bad Request  {   "code": 1810,   "message": "Frank structure is not valid" } | ok |  |
| 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": "131000",  "frankMachineId": "PM100500",  "contractCode": "00001010",  "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": "22.1.1",  "franks": [  {  "dmMessage": "!45!01NE6431310001207211005000111633800029002100006000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111633900029002100007000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111634000032002100008000001010"  }  ]  } | 200  ОК  {  "contractCode": "00001010",  "current": 950,  "consolidate": 950,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } | ok |  |
| 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": "131000",  "frankMachineId": "PM100500",  "contractCode": "00001010",  "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": "22.1.1",  "franks": [  {  "dmMessage": "!45!01NE6431310001207211005000111633800029002100006000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111633900029002100007000001010"  },  {  "dmMessage": "!45!01NE6431310001207211005000111634000032002100008000001010"  }  ]  } | 200 OK  {  "contractCode": "00001010",  "current": 950,  "consolidate": 950,  "timestamp": "2021-01-01T09:00:00.001+03:00"  } | 不存在 |  |

# 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 | PM100500 is successfully authorized in ASUFM | Request completed successfully | Public key PM100500 request | RCS ← ASUFM | /frankMachines/PM100500/publicKey |  | 200  ОК | 返回200 OK（项目重启）  regenerate  但未保存至数据库 |  |
| 1.2 | Successfully completed "Request for public key PM100500" | Received new public key for PM100500 | Send public key PM100500 | RCS → ASUFM | /frankMachines/PM100500/publicKey | {  "key": "-----BEGIN PUBLIC KEY----- MEkwEwYHKoZIzj0CAQYIKoZIzj0DAQEDMgAHxZMuhGUvOwc6GKT6Y9V6+uSQmiLW 9vCO4A1xy7qquqrNFmPlsQhPMZUZ62HBKDeH -----END PUBLIC KEY-----",  "revision": 2,  "expireDate": "2031-06-23T06:31:58.651Z"  } | 204  ОК | Ok |  |
| 2.1 | PM100501 is NOT authorized in ASUFM (also not exist in RCS) | Request rejected | Public key PM100501 request | RCS ← ASUFM | /frankMachines/PM100501/publicKey |  | 404 Not found  {   "code": 9912,   "message": "FM not found" } | {      "code": 400,      "object": {          "code": 1004,          "message": "Unknown FM Id "      },      "ok": **false**  } |  |

# 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 | PM100500 is authorized in ASUFM | PM100500 was successfully deauthorized in ASUFM | Deauthorize PM100500 | RCS → ASUFM | /frankMachines/PM100500/unauth | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "ENABLED",  "taxVersion": "22.1.1",  "postOffice": "131000"  } | 204  OK | Ok |  |
| 1.2 | PM100500 is NOT authorized in ASUFM | Request rejected | Deauthorize PM100501 (not previously authorized) | RCS → ASUFM | /frankMachines/PM100501/unauth | {  "id": "PM100501",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "ENABLED",  "taxVersion": "22.1.1",  "postOffice": "131000"  } | 400  {     "code": 1318,     "message": "FM has not been authorized before" } | Ok |  |
| 1.3 |  | Request rejected | Deauthorize PM100500 (repeated) | RCS → ASUFM | /frankMachines/PM100500/unauth | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "ENABLED",  "taxVersion": "22.1.1",  "postOffice": "131000"  } | 400  {     "code": 1319,     "message": "FM is already unauthorized" } | Ok |  |

# 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 | PM100500 is deauthorized in ASUFM | Request successful | removal from service PM100500 | RCS → ASUFM | /frankMachines/PM100500/lost | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "LOST",  "taxVersion": "22.1.1",  "postOffice": "131000"  } | 204  OK | Ok |  |
| 1.2 |  | Request rejected | removal from service PM100501 (not been previously authorized) | RCS → ASUFM | /frankMachines/PM100501/lost | {  "id": "PM100501",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "LOST",  "taxVersion": "22.1.1",  "postOffice": "131000"  } | ФМ не была авторизована  400  {     "code": 1318,     "message": "FM has not been authorized before" } | Ok |  |
| 1.3 |  | Request rejected | removal from service PM100500 (repeated) | RCS → ASUFM | /frankMachines/PM100500/lost | {  "id": "PM100500",  "dateTime": "2021-01-01T09:00:01.001+03:00",  "status": "LOST",  "taxVersion": "22.1.1",  "postOffice": "131000"  } | ФМ была выведена из эксплуатации  400  {     "code": 1320,     "message": "FM is already in LOST status" } | Ok |  |