

Описание API REGPORTAL 9.0

JSON-schemas

роут	наименование
api/v2/enroll/ldap	Регистрация по логину и паролю LDAP
api/v3/enroll/identifiers	Регистрация по IMEI
{"error": "message"}	Контейнер для ошибки

OpenAPI 3.0.2 (Swagger)

Portal

роут	наименование
/login	Логин
/user_agreement	Пользовательское Соглашение
/usger	Информация о сотруднике
/enroll	Получение профиля регистрации
/spa/config	Получение текущей конфигурации
/spa/status	Статус регистрации
/spa/exit	Выход

api_v1

роут	наименование
/portal_app/v1/authtypes	Запрос списка типов регистрации
/portal_app/v1/enroll	Возврат kit_id
/portal_app/v1/enroll/{jwt_session_encoded}	Возврат профиля МДМ
/portal_app/v1/login	Логин+пароль, код приглашения
/portal_app/v1/profile_install_state	Проверка установлен ли профиль
/portal_app/v1/user	Показать данные сотрудника
/portal_app/v1/user_agreement	Пользовательское Соглашение
/portal_app/v1/user_agreement/{value}	Признак принятия/непринятия ПС
/portal_app/v1/user/{value}	Передача слова yes по неведомой причине
/checkin	Аутентификация, токен

api_v2

роут	наименование
api/v2/enroll/code/{code}	Регистрация устройства по коду приглашения (QR-коду)
api/v2/enroll/imei/{imei_value}	Регистрация по IMEI
api/v2/enroll/ldap	Регистрация по логину и паролю LDAP
api/v2/user_agreement	Запрос пользовательского соглашения

api_v3

роут	наименование
api/v3/enroll/identifiers	Регистрация по идентификаторам

Описание компонентов API REGPORTAL

Регистрация по логину и паролю LDAP

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "/api/v2/enroll/ldap",
  "$comment": "Соответствует всем предъявленным требованиям",
  "description": "Headers Content-Type: application/json, User-Agent: <по требованиям пакета user_agents 2.1>",
  "type": "object",
  "required": ["login", "password"],
  "properties": {
    "login": {"type": "string", "minLength": 4, "maxLength": 128},
    "password": {"type": "string", "minLength": 8, "maxLength": 128}
  },
  "additionalProperties": false
}
```

Регистрация по IMEI

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "/api/v2/enroll/ldap",
  "$comment": "Соответствует всем предъявленным требованиям",
  "description": "Headers Content-Type: application/json, User-Agent: <по требованиям пакета user_agents 2.1>",
  "type": "object",
  "required": ["login", "password"],
  "properties": {
    "login": {"type": "string", "minLength": 4, "maxLength": 128},
    "password": {"type": "string", "minLength": 8, "maxLength": 128}
  },
  "additionalProperties": false
}
```

Контейнер для ошибки

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "json-контейнер для ошибок error: message",
  "$comment": "Соответствует требованиям: ",
  "description": "Описание формата сообщения об ошибке",
  "type": "object",
  "required": ["error"],
  "properties": {
    "error": {"type": "string", "minLength": 1, "maxLength": 511}
  },
  "additionalProperties": false
}
```

Portal

```
openapi: 3.0.3
info:
  title: Роуты для взаимодействия backend и frontend портала регистрации
  description: Роуты для взаимодействия backend и frontend портала регистрации
  version: 1.0.0
servers:
  - url: 'https://sso2.safe-mobile.ru'

tags:
  - name: login
  - name: user_agreement
  - name: user
  - name: enroll
  - name: spa

paths:
  /login:
    parameters:
      - name: jwt_session
        in: cookie
        required: false
```

```
  schema:
    type: string
  description: jwt_session

post:
  tags:
  - login
  description: Проверка логина/пароля или кода приглашения
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            code:
              type: number
              minimum: 0
              maximum: 999999999
            ldap_login:
              type: string
              minLength: 4
              maxLength: 128
            ldap_password:
              type: string
              minLength: 4
              maxLength: 128

  responses:
    200:
      description: Успешная проверка
      content:
        application/json: {}
    400:
      description: Ошибка
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'

options:
  tags:
```

```
- login
responses:
  200:
    description: OK
    headers:
      Content-Type:
        schema:
          type: string
      Content-Length:
        schema:
          type: integer
      X-Frame-Options:
        schema:
          type: string
        enum:
          - DENY
          - SAMEORIGIN
      Allow:
        schema:
          type: string
    content:
      text/html:
        schema:
          type: string

/user_agreement:
  parameters:
    - name: jwt_session
      in: cookie
      required: false
      schema:
        type: string

  get:
    description: Запрос пользовательского соглашения
    tags:
      - user_agreement
    responses:
      200:
        description: Текст пользовательского соглашения
        content:
          application/json:
```

```
    schema:
      properties:
        user_agreement:
          type: string
          description: Текст ПС
        redirect:
          type: string
          description: Страница перенаправления
          minLength: 4
          maxLength: 128
  400:
    description: Ошибка
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'

options:
  tags:
    - user_agreement
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
      Allow:
        schema:
          type: string
      content:
        text/html:
          schema:
```

```
        type: string

head:
  tags:
    - user_agreement
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN

/user_agreement/{value}:
  parameters:
    - name: jwt_session
      in: cookie
      required: false
      schema:
        type: string
      description: jwt_session
    - name: value
      in: path
      description: признак согласия с ПС
      required: true
      schema:
        type: string
        enum:
          - agree
          - disagree

post:
  tags:
```



```
- user_agreement
description: Согласие/несогласие с пользовательским соглашением
requestBody:
  required: false
  content:
    application/json: {}
responses:
  200:
    description: Успешный ответ
    content:
      application/json:
        schema:
          type: object
          properties:
            state:
              type: string
              enum:
                - accepted
                - declined
  400:
    description: Ошибка
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
```

```
options:
  tags:
    - user_agreement
responses:
  200:
    description: OK
    headers:
      Content-Type:
        schema:
          type: string
      Content-Length:
        schema:
          type: integer
      X-Frame-Options:
        schema:
```

```
        type: string
        enum:
          - DENY
          - SAMEORIGIN
    Allow:
      schema:
        type: string
    content:
      text/html:
        schema:
          type: string

/user:
  parameters:
    - name: jwt_session
      in: cookie
      required: false
      schema:
        type: string
      description: jwt_session

  get:
    tags:
      - user
    responses:
      200:
        description: Получение информации о сотруднике
        headers:
          Cookie:
            schema:
              type: string
            description: jwt_session
        content:
          text/html:
            schema:
              type: object
            properties:
              emp_id:
                type: number
                minimum: 1
                maximum: 65536
              family:
```

```
    type: string
    minLength: 4
    maxLength: 128
  name:
    type: string
    minLength: 4
    maxLength: 128
  patronymic:
    type: string
    minLength: 4
    maxLength: 128
  unit_id:
    type: number
    minimum: 1
    maximum: 65536
  unit_name:
    type: number
    minimum: 1
    maximum: 65536
  position_id:
    type: number
    minimum: 1
    maximum: 65536
  position:
    type: string
    minLength: 4
    maxLength: 128
```

options:

tags:

- user

responses:

200:

description: OK

headers:

Content-Type:

schema:

type: string

Content-Length:

schema:

type: integer

```
    X-Frame-Options:
      schema:
        type: string
      enum:
        - DENY
        - SAMEORIGIN
    Allow:
      schema:
        type: string
  content:
    text/html:
      schema:
        type: string

head:
  tags:
    - user
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN

/enroll:

  parameters:
    - name: jwt_session
      in: cookie
      required: false
      schema:
        type: string
```

```
description: jwt_session

get:
  description: Получение enrollemnt profile
  tags:
    - enroll
  responses:
    200:
      description: OK
      content:
        application/json:
          schema:
            type: object
            properties:
              token:
                type: string

        application/x-apple-aspen-config:
          schema:
            type: string

options:
  tags:
    - enroll
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
      Allow:
```

```
        schema:
          type: string
      content:
        text/html:
          schema:
            type: string

head:
  tags:
    - enroll
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN

/spa/config:
  parameters:
    - name: jwt_session
      in: cookie
      required: false
      schema:
        type: string

  get:
    description: Запрос конфигурации портала регистрации
    tags:
      - spa
    responses:
      200:
        description: Конфигурация
```

```
content:
  application/json:
    schema:
      properties:
        providers:
          type: array
          items:
            type: string
            minimum: 1
            maximum: 65536
        monitor:
          type: object
          properties:
            descr:
              type: string
              minimum: 1
              maximum: 65536
            regex:
              type: string
              minimum: 1
              maximum: 65536
            url:
              type: string
              minimum: 1
              maximum: 65536

        qr_link:
          type: string
          minimum: 1
          maximum: 65536
        os:
          type: string
          minimum: 1
          maximum: 65536
400:
  description: Ошибка
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
```

```
options:
```

```
tags:
  - spa
responses:
  200:
    description: OK
    headers:
      Content-Type:
        schema:
          type: string
      Content-Length:
        schema:
          type: integer
      X-Frame-Options:
        schema:
          type: string
          enum:
            - DENY
            - SAMEORIGIN
      Allow:
        schema:
          type: string
    content:
      text/html:
        schema:
          type: string

head:
  tags:
    - spa
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
```



```
        enum:
          - DENY
          - SAMEORIGIN

/spa/status:
  parameters:
    - name: jwt_session
      in: cookie
      required: false
      schema:
        type: string

  get:
    description: Запрос статуса регистрации
    tags:
      - spa
    responses:
      200:
        description: Статус регистрации
        content:
          application/json:
            schema:
              properties:
                page:
                  type: string
                  minimum: 4
                  maximum: 128
      400:
        description: Ошибка
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'

  options:
    tags:
      - spa
    responses:
      200:
        description: OK
        headers:
          Content-Type:
```

```
    schema:
      type: string
  Content-Length:
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
        type: string

head:
  tags:
    - spa
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN

/spa/exit:
  parameters:
    - name: jwt_session
```

```
  in: cookie
  required: false
  schema:
    type: string

get:
  description: Выход
  tags:
    - spa
  responses:
    200:
      description: Выход
      content:
        application/json:
          schema: {}
    400:
      description: Ошибка
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'

options:
  tags:
    - spa
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
      Allow:
```

```
        schema:
          type: string
      content:
        text/html:
          schema:
            type: string

head:
  tags:
    - spa
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN

components:
  schemas:
    Error:
      type: object
      properties:
        error:
          type: string
          description: Описание ошибки
          minimum: 4
          maximum: 128
        redirect:
          type: string
          description: Страница перенаправления
          minimum: 4
          maximum: 128
```

Запрос списка типов регистрации

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - Запрос списка возможных типов регистрации (ldap, код приглашения)
  version: "1.0"
  # Соответствует требованиям КЗ Blocker КБ-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/authtypes:
    post:
      requestBody:
        required: false
        content:
          text/plain:
            schema:
              type: string
      responses:
        200:
          description: возврат всегда 200, а в body -> json -> список типов + url MDM-a
          content:
            application/json:
              schema:
                {}
              examples:
                properties:
                  value:
                    list_authtypes: [ldap, code]
                    EventUrl: https://sso2.uemsm.ru

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
```

```
        type: integer
X-Frame-Options:
  schema:
    type: string
  enum:
    - DENY
    - SAMEORIGIN
Allow:
  schema:
    type: string
content:
  text/html:
    schema:
      type: string
```

Возврат kit_id

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - возврат kit_id
  version: "1.0"
  # Соответствует требованиям КЗ Blocker КБ-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/enroll:
    parameters:
      - name: jwt_session
        in: cookie
        required: false
        schema:
          type: string
        description: jwt_session
    post:
      requestBody:
        required: false
        content:
          text/plain:
            schema:
```

```
    type: string
responses:
  200:
    description: в body -> json -> зашифрованная сессия (или только kit_id для Авроры)
    content:
      application/octet-stream:
        schema:
          type: string
          format: binary
  550:
    description: License error
    headers:
      Cookie:
        required: false
        schema:
          type: string
          description: jwt_session
    content:
      application/x-apple-aspen-mdm:
        schema:
          type: string
  501:
    description: Unsupported OS
    headers:
      Cookie:
        required: false
        schema:
          type: string
          description: jwt_session
    content:
      application/x-apple-aspen-mdm:
        schema:
          type: string

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
```

```
Content-Length:
  schema:
    type: integer
X-Frame-Options:
  schema:
    type: string
  enum:
    - DENY
    - SAMEORIGIN
Allow:
  schema:
    type: string
content:
  text/html:
    schema:
      type: string
```

Возврат профиля МДМ

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - возврат профиля МДМ
  version: "1.0"
  # Соответствует требованиям КЗ Blocker KB-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/enroll/{jwt_session_encoded}:
    parameters:
      - name: jwt_session_encoded
        in: path
        description: зашифрованная сессия
        required: true
        schema:
          type: string
        example: jdkFsDHFGcdjUInvot5isLwGDflj78kbn;NGNMcvuhySouiBVer085u467ektmgbsdffs
    get:
      responses:
```



```
200:
  description: профиль МДМ в виде файла, подписанный и зашифрованный
  content:
    application/x-apple-aspen-config:
      schema:
        type: string
        format: binary

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
```

```
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN
```

Логин+пароль, код приглашения

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - логин+пароль, код приглашения
  version: "1.0"
  #Соответствует требованиям КЗ Blocker KB-OAS-1,4,5,6,8
servers:
  - url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/login:
    parameters:
      - name: Cookie
        in: header
        required: false
        schema:
          type: string
        description: jwt_session

    post:
      description: В теле запроса форма логин+пароль и код приглашения (на выбор)
      requestBody:
        required: true
        content:
          application/x-www-form-urlencoded:
            schema:
              type: object
              properties:
                code:
                  type: number
```

```
    ldap_login:
      type: string
    ldap_password:
      type: string

responses:
  200:
    description: возврат uid-номера сессии SESSION-ID
    headers:
      Cookie:
        schema:
          type: string
        description: jwt_session
    content:
      application/json:
        schema:
          {}
        example: 20d30765-c75d-4d5f-82fa-bf04bcb24c8b
  481:
    description: AD user not imported
    headers:
      Cookie:
        required: false
        schema:
          type: string
        description: jwt_session
    content:
      text/html:
        schema:
          type: string
  483:
    description: LDAP Invalid credentials
    headers:
      Cookie:
        required: false
        schema:
          type: string
        description: jwt_session
    content:
      text/html:
        schema:
          type: string
```

```
482:
  description: AD user is blocked
  headers:
    Cookie:
      required: false
      schema:
        type: string
      description: jwt_session
  content:
    text/html:
      schema:
        type: string
503:
  description: Service unavilable
  headers:
    Cookie:
      required: false
      schema:
        type: string
      description: jwt_session
  content:
    text/html:
      schema:
        type: string
403:
  description: Auth error
  headers:
    Cookie:
      required: false
      schema:
        type: string
      description: jwt_session
  content:
    text/html:
      schema:
        type: string
400:
  description: Monitor uid not defined
  headers:
    Cookie:
      required: false
      schema:
```

```
        type: string
        description: jwt_session
content:
  text/html:
    schema:
      type: string

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string
```

Проверка установлен ли профиль

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - проверка установлен ли профиль
  version: "1.0"
  # Соответствует требованиям КЗ Blocker KB-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/profile_install_state:
    parameters:
      - name: Cookie
        in: header
        required: false
        schema:
          type: string
          example: APNS-token
        description: jwt_session

    post:
      description: в куках лежит токен APNS
      requestBody:
        required: false
        content:
          text/plain:
            schema:
              type: string

      responses:
        200:
          description: возврат всегда 200, а в body -> json -> state = True/False
          headers:
            Cookie:
              schema:
                type: string
                example: APNS-token
              description: jwt_session, в куках лежит токен APNS
          content:
            application/json:
              schema:
                {}
              example: True
```

```
options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
      Allow:
        schema:
          type: string
      content:
        text/html:
          schema:
            type: string
```

Показать данные сотрудника

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - показать данные сотрудника после успешной регистрации
  version: "1.0"
  #Соответствует требованиям КЗ Blocker КБ-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/user:
    parameters:
      - name: Cookie
        in: header
        required: false
        schema:
          type: string
          description: jwt_session token

    get:
      responses:
        200:
          description: показать данные сотрудника после успешной регистрации
          headers:
            Cookie:
              schema:
                type: string
                description: jwt_session token
          content:
            application/json:
              schema:
                {}
              example: Иванов Петр Васильевич
        403:
          description: Login required
          headers:
            Cookie:
              required: false
              schema:
                type: string
                description: jwt_session
          content:
```



```
    text/html:
      schema:
        type: string

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
```

```
type: string
enum:
  - DENY
  - SAMEORIGIN
```

Пользовательское Соглашение

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - показать ПС (Пользовательское Соглашение)
  version: "1.0"
  # Соответствует требованиям КЗ Blocker КБ-OAS-1,4,5,6,8
servers:
  - url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/user_agreement:
    parameters:
      - name: Cookie
        in: header
        required: false
        schema:
          type: string
          description: jwt_session

    get:
      description: запрос ПС
      responses:
        302:
          description: Перенаправление на страницу показать ФИО сотрудника после успешной регистрации (если нет ПС)
          headers:
            Cookie:
              schema:
                type: string
                description: jwt_session
            Location:
              schema:
                type: string
              description: перенаправление

        200:
```

```
description: показать PC
headers:
  Cookie:
    description: jwt_session
    schema:
      type: string
content:
  text/plain; charset=utf-8:
    schema:
      type: string
    example: Пользователь всегда на все согласен
```

```
403:
description: Access denied
headers:
  Cookie:
    required: false
    schema:
      type: string
    description: jwt_session
content:
  text/html:
    schema:
      type: string
```

```
options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
      Allow:
```

```
    schema:
      type: string
  content:
    text/html:
      schema:
        type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```

Признак принятия/непринятия ПС

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - отослать признак принятия/непринятия ПС (Пользовательского Соглашения)
  version: "1.0"
  #Соответствует требованиям КЗ Blocker КБ-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/user_agreement/{value}:
    parameters:
      - name: Cookie
        in: header
```

```
    required: false
    schema:
      type: string
    description: jwt_session
  - name: value
    in: path
    description: признак согласия с ПС
    required: true
    schema:
      type: string
    example: agree

post:
  description: приложение iOS возвращает серверу ответ
  requestBody:
    required: false
    content:
      text/plain:
        schema:
          type: string
  responses:
    200:
      description: Сервер всегда отвечает пустой строкой, но если disagree, аннулирует в базе инвайт
      headers:
        Cookie:
          schema:
            type: string
          description: jwt_session
      content:
        text/html:
          schema:
            type: string
          example: ""

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
```

```
Content-Length:
  schema:
    type: integer
X-Frame-Options:
  schema:
    type: string
  enum:
    - DENY
    - SAMEORIGIN
Allow:
  schema:
    type: string
content:
  text/html:
    schema:
      type: string
```

Передача слова yes по неведомой причине

```
openapi: 3.0.2
info:
  title: Пер. сотрудника через приложение iOS - передача слова yes по неведомой причине
  version: "1.0"
  #Соответствует требованиям КЗ Blocker KB-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /portal_app/v1/user/{value}:
    parameters:
      - name: value
        in: path
        description: признак yes/no
        required: true
        schema:
          type: string
        example: yes
      - name: Cookie
        in: header
        required: false
```

```
  schema:
    type: string
  description: jwt_session token

post:
  requestBody:
    required: false
  content:
    text/plain:
      schema:
        type: string
  responses:
    200:
      description: возврат "OK"
      headers:
        Cookie:
          schema:
            type: string
          description: jwt_session token
      content:
        text/html:
          schema:
            type: string
          example: OK

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```

```
    Allow:
      schema:
        type: string
  content:
    text/html:
      schema:
        type: string
```

Аутентификация, токен

```
openapi: 3.0.2
info:
  title: Управление устройствами iOS - аутентификация, токен
  version: "1.0"
  #Соответствует требованиям КЗ Blocker KB-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /checkin:
    parameters:
      - name: Cookie
        in: query
        required: false
        schema:
          type: string
        description: jwt_session

    put:
      description: plist от iOS
      requestBody:
        required: false
        content:
          application/x-apple-aspen-mdm:
            schema:
              type: string
      responses:
        200:
          description: plist для iOS
          headers:
```



```
    Cookie:
      required: false
      schema:
        type: string
      description: jwt_session
  content:
    application/x-apple-aspen-mdm:
      schema:
        type: string
503:
  description: Malformed data
  headers:
    Cookie:
      required: false
      schema:
        type: string
      description: jwt_session
  content:
    application/x-apple-aspen-mdm:
      schema:
        type: string
400:
  description: Unsupproted message type
  headers:
    Cookie:
      required: false
      schema:
        type: string
      description: jwt_session
  content:
    application/x-apple-aspen-mdm:
      schema:
        type: string
401:
  description: Auth error
  headers:
    Cookie:
      required: false
      schema:
        type: string
      description: jwt_session
  content:
```

```
    application/x-apple-aspen-mdm:
      schema:
        type: string
options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string
```

Регистрация устройства по коду приглашения (QR-коду)

```
openapi: "3.0.2"
info:
  title: Регистрация устройства по коду приглашения (QR-коду)
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/enroll/code/{code}:
    parameters:
      - name: code
        in: path
        description: Код приглашения
        required: true
        schema:
          type: string
          maxLength: 50
      - name: User-Agent
        in: header
        description: Идентификатор приложения
        required: true
        schema:
          type: string
          example: Mozilla/5.0 (Linux; Android 11; SM-A750FN) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.116
          Mobile Safari/537.36
    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
```

```
        type: string
        enum:
          - DENY
          - SAMEORIGIN
    Allow:
      schema:
        type: string

    content:
      text/html:
        schema:
          type: string

  head:
    responses:
      default:
        description: OK
        headers:
          Content-Type:
            schema:
              type: string
          Content-Length:
            schema:
              type: integer
          X-Frame-Options:
            schema:
              type: string
            enum:
              - DENY
              - SAMEORIGIN

  get:
    responses:
      200:
        content:
          application/json:
            schema:
              {}
        description: Настройки монитора

      400:
        description: Bad request
```

```
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'

550:
description: ServerError
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'

474:
description: ServerError
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'

480:
description: ServerError
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'

473:
description: ServerError
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'

576:
description: ServerError
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
```

Регистрация по IMEI

```
openapi: 3.0.2
info:
  title: Регистрация по IMEI
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
- url: https://sso2.safe-mobile.ru
- url: https://sso1.safe-mobile.ru
paths:
  /api/v2/enroll/imei/{imei_value}:
    parameters:
      - name: imei_value
        in: path
        required: true
        schema:
          type: integer

    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
              enum:
                - DENY
                - SAMEORIGIN
          Allow:
            schema:
              type: string
          content:
            text/html:
              schema:
```

```
        type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN

get:
  responses:
    200:
      description: Объект монитора
      content:
        application/json:
          schema:
            {}
    475:
      description: Номер комплекта для этого IMEI не найден
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'
    550:
      description: Исчерпано количество лицензий
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'
    576:
      description: Неожиданная ошибка БД
```

```
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
```

Регистрация по логину и паролю LDAP

```
openapi: "3.0.2"
info:
  title: Регистрация по логину и паролю LDAP
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/enroll/ldap:
    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
              enum:
                - DENY
                - SAMEORIGIN
          Allow:
            schema:
              type: string
```



```
    content:
      text/html:
        schema:
          type: string

post:
  parameters:
    - name: Content-Type
      in: header
      description: Тип содержимого
      required: true
      schema:
        type: string
  requestBody:
    description: Логин и пароль в json
    content:
      application/json:
        schema:
          $ref: '../components/schemas/v2_enroll_ldap.json'
        example:
          {"login": "my_login", "password": "my_password"}

responses:
  200:
    content:
      application/json:
        schema:
          {}
    description: Объект монитора
  420:
    description: Неверный запрос
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
  477:
    description: Превышено максимальное число попыток входа
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
  478:
```

```
description: Ошибка аутентификации или формата аутентификации LDAP
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
479:
description: Не найден логин или пароль
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
511:
description: Нет соединения с сервером аутентификации
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
550:
description: Исчерпано количество лицензий
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
576:
description: Неожиданная ошибка БД
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
```

Запрос пользовательского соглашения

```
openapi: "3.0.2"
info:
  title: Запрос пользовательского соглашения
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/user_agreement:
    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
              enum:
                - DENY
                - SAMEORIGIN
          Allow:
            schema:
              type: string

    head:
      responses:
        default:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
```

```
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN

get:
  responses:
    200:
      description: Текст пользовательского соглашения
      content:
        application/json:
          schema:
            {}
          example: 1. Настоящее соглашение регулирует отношения между Банком и Пользователем.

    575:
      description: Пользовательское соглашение не найдено
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'

    576:
      description: Unexpected database error
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'

    475:
      description: Пользовательское соглашение не используется
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'
```

Регистрация по идентификаторам

```
openapi: "3.0.2"
info:
  title: Регистрация по идентификаторам
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v3/enroll/identifiers:
    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
              enum:
                - DENY
                - SAMEORIGIN
            Allow:
              schema:
                type: string
    post:
      parameters:
        - name: Content-Type
          in: header
          description: Тип содержимого
          required: true
          schema:
            type: string
          example: application/json
```

```
requestBody:
  description: Список идентификаторов в json (IMEI, серийники и т.п.)
  content:
    application/json:
      schema:
        $ref: '../components/schemas/v3_enroll_identifiers.json'

responses:
  200:
    description: Настройки монитора (json) в Body
    content:
      application/json:
        schema:
          {}
  412:
    description: Precondition Failed, Content-Type must be application/json
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
  420:
    description: Переданы пустые параметры
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
  550:
    description: Количество лицензий исчерпано
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
  576:
    description: Неожиданная ошибка БД
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
```

Описание API MDM 9.0

JSON-schema Draft-07 (SOWA)

роут	наименование
api/v1/events	Универсальное событие
PREVIOUS api/v1/events	Универсальное событие (черновик)
api/v2/applist	Сообщение об установленных приложениях
api/v2/queue	Очередь
api/v2/store/apps/{app_uid}	Отметить приложение для установки или удаления из store
{"error": "message"}	Контейнер для ошибки
training.xsd	Тестовое описание plist

OpenAPI 3.0.2 (Swagger)

api_v1

роут	наименование
api/v1/downloads/{app_id}	Загрузка приложения
api/v1/events	Универсально событие
api/v1/monitor_update_config/{deploy_location}	Обновление монитора
/monitor	Управление Монитором iOS
/mdm	Доклад iOS-устройства
/events	Собственный монитор НИИСОКБ
/api/v2/safelife/profile	Получить строку политик по kit_id
/check/mdm/above/4/6	Службное API для монитора iOS
/api/v1/apps/manifest/<app_uid>	Запрос информации о доверенном приложении
/api/v1/mtls_scep_config	Получение настроек SCEP
/api/v1/apps/icons	Получение иконки приложения при загрузке через SafeStore
/api/v1/apps/installation	Получение файла корпоративного приложения

api_v2

роут	наименование
api/v2/store/apps	Список приложений
api/v2/store/apps/{app_uid}	Отметить приложение для установки или удаления из store
api/v2/store/images/{app_id}	Получение иконки по номеру приложения
api/v2/android/settings	Запрос объекта настроек монитора
api/v2/app_config/{config_id}/version/{version}	Запрос конфигурации приложения
api/v2/app_rule/{app_rule_id}/version/{version}	Запрос ПУП
api/v2/applist	Сообщение об установленных приложениях
api/v2/assignment_references	Запрос списка назначений
api/v2/get/icon/{app_id}	Запрос иконки приложения
api/v2/profiles/{profile_id}/version/{version}	Запрос профиля устройства
api/v2/queue	Очередь
api/v2/send_file/{task_id}/{checksum}	Получение файла
api/v2/substitutions	Запрос списка подстановок

api_v3

роут	наименование
api/v3/app_rule/{app_rule_id}/version/{version}	Запрос ПУП
api/v3/get/icon/{ico_id}	Запрос иконки по номеру
api/v3/assignment_references	Запрос списка назначений

api_v4

роут	наименование
api/v4/app_rule/{app_rule_id}/version/{version}	Запрос ПУП

Описание компонентов API MDM

Универсальное событие

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "/api/v1/events",
  "$comment": "Соответствует всем предъявленным требованиям",
  "description": "Content-Type: application/json;charset=UTF-8, X-MCC-ID: <long: kit_id>",
  "type": "array",
  "items": {
    "type": "object",
    "required": ["timestamp", "event"],
    "properties": {

      "channel": {"enum": ["MDM", "SS"]},

      "timestamp": {"type": "integer", "minimum": 0, "maximum": 9223372036854775807},
      "event": {"type": "object", "required": ["event_format_version", "event_code"],
        "properties": {

          "serializedType": {"type": "string", "minLength": 0, "maxLength": 255, "example": ["EventAppInstall"]},

          "event_format_version": {"type": "integer", "minimum": 1, "maximum": 3},
          "event_code": {"type": "integer", "minimum": 1, "maximum": 254},
          "event_uuid": {"anyOf": [
            {"type": "string", "minLength": 36, "maxLength": 36, "example": ["123e4567-e89b-12d3-a456-426655440000"]},
            {"type": "null"}]}},
          "container": {"type": "boolean"},
          "container_type": {"enum": ["samsung_knox", "android_work_profile"]},
          "error_code": {"type": "integer", "minimum": -10000000000, "maximum": 80000},
          "error_details": {"type": "string", "minLength": 0, "maxLength": 511},
          "error_type": {"type": "string", "minLength": 0, "maxLength": 511},

          "datetime_old": {"type": "string", "minLength": 16, "maxLength": 40, "example": ["2018-09-13 06:57:32.0
UTC+03:00"]}},
        }
      }
    }
  }
}
```

```
"datetime_new": {"type": "string", "minLength": 16, "maxLength": 40, "example": ["2017-11-14 07:45:14.0 UTC-02:00"]},
  "locked_by": {
    "type": "array",
    "items": {"enum": ["command", "policy", "password", "kiosk"]}, "additionalItems": false
  },
  "old_sim": {
    "type": "object",
    "properties": {
      "ICCID": {"type": "string", "minLength": 0, "maxLength": 255},
      "IMSI": {"type": "string", "minLength": 0, "maxLength": 255},
      "phone": {"type": "string", "minLength": 0, "maxLength": 255}
    },
    "additionalProperties": false
  },
  "new_sim": {
    "type": "object",
    "properties": {
      "ICCID": {"type": "string", "minLength": 0, "maxLength": 255},
      "IMSI": {"type": "string", "minLength": 0, "maxLength": 255},
      "phone": {"type": "string", "minLength": 0, "maxLength": 255}
    },
    "additionalProperties": false
  },
  "need_block_mob": {"type": "boolean"},
  "profile_type": {"type": "string", "minLength": 0, "maxLength": 511},
  "profile": {
    "type": "object",
    "properties": {
      "aek": {"type": "integer", "minimum": 1, "maximum": 2147483647},
      "checksum": {"type": "string", "minLength": 0, "maxLength": 64}
    },
    "additionalProperties": false
  },
  "application_configuration_version": {
    "type": "object",
    "properties": {
      "aek": {"type": "integer", "minimum": 1, "maximum": 2147483647},
```

```
    "checksum": {"type": "string", "minLength": 0, "maxLength": 64},
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    "container": {"type": "boolean"}
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  "additionalProperties": false
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"substitutions_version": {"type": "integer", "minimum": 1, "maximum": 2147483647},
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"policy_value": {"anyOf": [
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  {"type": "string", "minLength": 1, "maxLength": 511},
  {"type": "array", "items": {"type": "boolean"}, "additionalItems": false},
  {"type": "array", "items": {"type": "integer", "minimum": 1, "maximum": 2147483647}, "additionalItems":
false},
  {"type": "array", "items": {"type": "string", "minLength": 1, "maxLength": 511}, "additionalItems": false},
  { "type": "object",
    "required": ["type", "fileFormat", "certificate"],
    "properties": {
      "type": {"enum": ["Certificate"]},
      "fileFormat": {"enum": ["PEM", "PKCS12"]},
      "certificate": {"type": "string", "minLength": 0, "maxLength": 8192},
      "password": {"type": "string", "minLength": 0, "maxLength": 511}
    },
    "additionalProperties": false
  },
  { "type": "object",
    "required": ["type", "serverUrl"],
    "properties": {
      "type": {"enum": ["ServerConnection"]},
      "serverUrl": {"type": "string", "minLength": 0, "maxLength": 511},
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          "required": ["type", "fileFormat", "certificate"],
          "properties": {
```

```

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        "fileFormat": {"enum": ["PEM", "PKCS12"]},
        "certificate": {"type": "string", "minLength": 0, "maxLength": 8192},
        "password": {"type": "string", "minLength": 0, "maxLength": 511}
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    "additionalProperties": false
},
"additionalItems": false
}
},
"additionalProperties": false
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{ "type": "object",
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    "subjectName": {"type": "string", "minLength": 0, "maxLength": 511},
    "challenge": {"type": "string", "minLength": 0, "maxLength": 511},
    "keySize": {"type": "integer", "minimum": 1, "maximum": 2147483647},
    "encryptionAlgorithm": {"type": "string", "minLength": 0, "maxLength": 511},
    "pollingAttempts": {"type": "integer", "minimum": 1, "maximum": 2147483647},
    "pollingTimeoutMinutes": {"type": "integer", "minimum": 1, "maximum": 2147483647},
    "connection":
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      "properties": {
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        "serverUrl": {"type": "string", "minLength": 0, "maxLength": 511},
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            "properties": {
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              "fileFormat": {"enum": ["PEM", "PKCS12"]},
              "certificate": {"type": "string", "minLength": 0, "maxLength": 8192},
              "password": {"type": "string", "minLength": 0, "maxLength": 511}
            },
            "additionalProperties": false
          },
        }
      }
    }
  }
},

```

```
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    },
    "additionalProperties": false
  }
},
"additionalProperties": false
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      "fileFormat": {"enum": ["PEM", "PKCS12"]},
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  "additionalItems": false
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    "properties": {
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      "serverUrl": {"type": "string", "minLength": 0, "maxLength": 511},
      "password": {"type": "string", "minLength": 0, "maxLength": 511},
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        "items": {
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          "required": ["type", "fileFormat", "certificate"],
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            "fileFormat": {"enum": ["PEM", "PKCS12"]},
            "certificate": {"type": "string", "minLength": 0, "maxLength": 8192},
            "password": {"type": "string", "minLength": 0, "maxLength": 511}
          }
        }
      }
    }
  }
}
```

```

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}
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"additionalItems": false
},
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      "challenge": {"type": "string", "minLength": 0, "maxLength": 511},
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          "properties": {
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            "serverUrl": {"type": "string", "minLength": 0, "maxLength": 511},
            "certificates": {
              "type": "array",
              "items": {
                "type": "object",
                "required": ["type", "fileFormat", "certificate"],
                "properties": {
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                  "fileFormat": {"enum": ["PEM", "PKCS12"]},
                  "certificate": {"type": "string", "minLength": 0, "maxLength": 8192},
                  "password": {"type": "string", "minLength": 0, "maxLength": 511}
                },
              },
              "additionalProperties": false
            },
          },
        },
    },
  },
},

```

```
        "additionalItems": false
      }
    },
    "additionalProperties": false
  }
},
"additionalProperties": false
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"additionalItems": false
}
]],
"policy_id": {"type": "string", "minLength": 1, "maxLength": 511},
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"application_setting_key": {"type": "string", "minLength": 0, "maxLength": 511},
"app_rule": {
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  "properties": {
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    "uid": {"type": "string", "minLength": 0, "maxLength": 128}
  },
  "additionalProperties": false
},
"network_type": {"enum": ["cellular", "wifi", "ethernet", "other"]},
"ip_address": {"type": "string", "minLength": 7, "maxLength": 32},
"details": {"type": "string", "minLength": 0, "maxLength": 511},
"assignment_entity": {
  "type": "object",
  "properties": {
    "type": {"enum": ["profile", "app_cfg", "app_rule"]},
    "aek": {"type": "integer", "minimum": 0, "maximum": 2147483647},
    "checksum": {"type": "string", "minLength": 0, "maxLength": 128}
  },
  "additionalProperties": false
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}
```

```
"app_uid": {"anyOf": [
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  {"type": "null"}]},
"object_type": {"enum": ["APP", "FILE"]},
"file_path": {"anyOf": [
  {"type": "string", "minLength": 0, "maxLength": 511},
  {"type": "null"}]},
"app_admin": {"anyOf": [
  {"type": "boolean"},
  {"type": "null"}]},
"app_in_container": {"type": "boolean"},
"threat_name": {"anyOf": [
  {"type": "string", "minLength": 0, "maxLength": 511},
  {"type": "null"}]},
"threat_type": {"enum": ["ADWARE", "MALWARE", "RISKWARE", "TROJAN_BANKER", "UDS_MALWARE", "UDS_PHISHING"]},
"security_level": {"enum": ["LOW", "MEDIUM", "HIGH", "INFO"]},
"protect_status": {"enum": ["on", "threats not eliminated", "off", "av_not_installed"]},
"part": {"type": "integer", "minimum": 1, "maximum": 2147483647},

"data": {
  "type": "object",
  "properties": {

    "LocationCollectionStatus": {"anyOf": [
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      {"type": "null"}]},
    "AVDBUpdateDate": {"anyOf": [
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      {"type": "null"}]},
    "EnrollmentSpecificId": {"anyOf": [
      {"type": "string", "minLength": 0, "maxLength": 254},
      {"type": "null"}]},
    "PasswordTokenStatus": {"anyOf": [
      {"enum": ["unsupported", "active", "inactive"]},
      {"type": "null"}]},
    "KNOXAvailable": {"anyOf": [
      {"type": "boolean"},
      {"type": "null"}]},
    "ConnectionType": {"anyOf": [
      {"enum": ["GPRS", "OTHER", "not_defined"]},
      {"type": "null"} ] },
    "SIMOwnership": {"anyOf": [
```



```
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "RoamingState": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "IMSI": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "ICCID": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "PhoneNumber": {"anyOf": [
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    {"type": "null"}]},
  "HomeCarrierNetwork": {"anyOf": [
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    {"type": "null"}]},
  "HomeMCC": {"anyOf": [
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    {"type": "null"} ] },
  "HomeMNC": {"anyOf": [
    {"type": "integer", "minimum": 0, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "DeviceType": {"anyOf": [
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    {"type": "null"} ] },
  "DeviceModel": {"anyOf": [
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  "SerialNumber": {"anyOf": [
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  "ContainerType": {"anyOf": [
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  "Platform": {"anyOf": [
```

```
    {"enum": ["iPhone OS", "Android", "Tizen", "SailfishOS", "Guardliner", "AuroraOS"]},
    {"type": "null"}]},
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    {"type": "null"}]},
  "DeviceOwnership": {"anyOf": [
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    {"type": "null"}]},
  "MonitorVersion": {"anyOf": [
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    {"type": "null"}]},
  "DOPrivilege": {"anyOf": [
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    {"type": "null"}]},
  "DAPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "POPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "KNOXPrivilege": {"anyOf": [
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    {"type": "null"}]},
  "KNOXPremiumPrivilege": {"anyOf": [
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    {"type": "null"}]},
  "SYSTEMPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "IP": {"anyOf": [
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  "Supervised": {"anyOf": [
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    {"type": "null"}]},
  "AVProtection": {"anyOf": [
```

```
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    {"type": "null"}]},
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  "LastScanAV": {"anyOf": [
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    {"type": "null"}]},
  "MobileOperatorName": {"anyOf": [
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  "CurrentMCC": {"anyOf": [
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    {"type": "null"} ] },
  "CurrentMNC": {"anyOf": [
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  "iTunesStoreAccountHash": {"anyOf": [
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    {"type": "null"}]},
  "StorageEncrypted": {"anyOf": [
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    {"type": "null"}]},
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    {"type": "null"}]},
  "IsLostModeEnabled": {"anyOf": [
```

```
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  "KNOXAvailable": {"anyOf": [
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  "KNOXAPIVersion": {"anyOf": [
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  "SecurityPatchLevel": {"anyOf": [
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  "OSArchitecture": {"anyOf": [
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    {"type": "null"}]},
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    {"type": "null"}]},
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```

```
    },
    "additionalProperties": false
  },
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        "properties": {
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          "name": {"type": "string", "minLength": 0, "maxLength": 511},
          "version_code": {"type": "integer", "minimum": 0, "maximum": 9223372036854775807},
          "version_name": {"type": "string", "minLength": 0, "maxLength": 511},
          "enabled": {"type": "boolean"},
          "reputation": {"enum": ["SYSTEM", "TRUSTED", "UNKNOWN", "UNTRUSTED"]},
          "is_threat": {"type": "boolean"},
          "can_uninstall": {"type": "boolean"}
        },
        "additionalProperties": false
      },
      "additionalItems": false
    },
    "iccid": {"type": "string", "minLength": 19, "maxLength": 19},
    "imsi": {"type": "string", "minLength": 15, "maxLength": 15},
    "server_type": {"enum": ["MDMServer", "SocketServer", "SCEPServer"]},
    "server_url": {"type": "string", "minLength": 0, "maxLength": 511},
    "time": {"type": "integer", "minimum": 0, "maximum": 9223372036854775807},
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    "horizontal_accuracy_meters": {"type": "integer", "minimum": 0, "maximum": 2147483647},
    "latitude": {"type": "number", "minimum": -90, "maximum": 90},
    "longitude": {"type": "number", "minimum": -180, "maximum": 180},
    "provider": {"anyOf": [
      {"enum": ["GPS", "NETWORK", "FUSED", "PASSIVE"]},
      {"type": "null"}
    ]},
    "app": {
      "type": "object",
      "properties": {
```

```

    "uid": {"type": "string", "minLength": 0, "maxLength": 511},
    "name": {"type": "string", "minLength": 0, "maxLength": 511},
    "version_code": {"type": "integer", "minimum": 1, "maximum": 2147483647},
    "version_name": {"type": "string", "minLength": 0, "maxLength": 511},
    "type": {"enum": ["corporate", "incorporate"]},
    "enabled": {"enum": [0, 1]},
    "can_disable": {"enum": [0, 1]},
    "can_delete": {"enum": [0, 1]},
    "is_managed": {"enum": [0, 1]},
    "reputation": {"enum": ["SYSTEM", "TRUSTED", "UNKNOWN", "UNTRUSTED"]},
    "is_threat": {"enum": [0, 1]},
    "datetime_old": {"type": "string", "minLength": 16, "maxLength": 40, "example": ["2018-09-13 06:57:32.0
UTC+03:00"]},
    "datetime_new": {"type": "string", "minLength": 16, "maxLength": 40, "example": ["2017-11-14 07:45:14.0
UTC-02:00"]},

    "locked_by": {
      "type": "array",
      "items": {
        "enum": ["command", "policy", "password", "kiosk"]
      },
      "additionalItems": false
    }
  },
  "additionalProperties": false
}
},
"additionalProperties": false
}
},
"additionalProperties": false
}
},
"additionalItems": false
}
}

```

Универсальное событие (черновик)

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",

```

```
"title": "/api/v1/events",
"$comment": "Соответствует всем предъявленным требованиям",
"description": "Content-Type: application/json;charset=UTF-8, X-MCC-ID: <long: kit_id>",
"type": "array",
"items": {
  "type": "object",
  "required": ["timestamp", "event"],
  "properties": {

    "channel": {"enum": ["MDM", "SS"]},

    "timestamp": {"type": "integer", "minimum": 0, "maximum": 9223372036854775807},
    "event": {"type": "object", "required": ["event_format_version", "event_code"],
      "properties": {

        "serializedType": {"type": "string", "minLength": 0, "maxLength": 255, "example": ["EventAppInstall"]},

        "event_format_version": {"type": "integer", "minimum": 1, "maximum": 3},
        "event_code": {"type": "integer", "minimum": 1, "maximum": 254},
        "event_uuid": {"anyOf": [
          {"type": "string", "minLength": 36, "maxLength": 36, "example": ["123e4567-e89b-12d3-a456-426655440000"]},
          {"type": "null"}]},
        "container": {"type": "boolean"},
        "container_type": {"enum": ["samsung_knox", "android_work_profile"]},
        "error_code": {"type": "integer", "minimum": -10000000000, "maximum": 80000},
        "error_details": {"type": "string", "minLength": 0, "maxLength": 511},
        "error_type": {"type": "string", "minLength": 0, "maxLength": 511},

        "datetime_old": {"type": "string", "minLength": 16, "maxLength": 40, "example": ["2018-09-13 06:57:32.0
UTC+03:00"]},
        "datetime_new": {"type": "string", "minLength": 16, "maxLength": 40, "example": ["2017-11-14 07:45:14.0 UTC-
02:00"]},

        "locked_by": {
          "type": "array",
          "items": {"enum": ["command", "policy", "password", "kiosk"]}, "additionalItems": false
        },

        "profile_type": {"type": "integer", "minimum": 0, "maximum": 2147483647},
        "profile": {
          "type": "object",
          "properties": {
```

```
    "aek": {"type": "integer", "minimum": 1, "maximum": 2147483647},
    "checksum": {"type": "string", "minLength": 0, "maxLength": 64}
  },
  "additionalProperties": false
},
"application_configuration_version": {
  "type": "object",
  "properties": {
    "aek": {"type": "integer", "minimum": 1, "maximum": 2147483647},
    "checksum": {"type": "string", "minLength": 0, "maxLength": 64},
    "uid": {"type": "string", "minLength": 0, "maxLength": 128},
    "container": {"type": "boolean"}
  },
  "additionalProperties": false
},
"substitutions_version": {"type": "integer", "minimum": 1, "maximum": 2147483647},
"substitution_key": {"type": "string", "minLength": 0, "maxLength": 511},
"policy_name": {"type": "string", "minLength": 0, "maxLength": 511},
"policy_value": {},
"policy_id": {},
"application_setting_value": {"type": "string", "minLength": 0, "maxLength": 511},
"application_setting_key": {"type": "string", "minLength": 0, "maxLength": 511},
"app_rule": {
  "type": "object",
  "properties": {
    "aek": {"type": "integer", "minimum": 1, "maximum": 2147483647},
    "checksum": {"type": "string", "minLength": 0, "maxLength": 64},
    "uid": {"type": "string", "minLength": 0, "maxLength": 128}
  },
  "additionalProperties": false
},
"network_type": {"enum": ["cellular", "wifi", "ethernet", "other"]},
"ip_address": {"type": "string", "minLength": 7, "maxLength": 32},
"details": {"type": "string", "minLength": 0, "maxLength": 511},
"assignment_entity": {
```



```
"type": "object",
"properties": {
  "type": {"enum": ["profile", "app_cfg", "app_rule"]},
  "aek": {"type": "integer", "minimum": 0, "maximum": 2147483647},
  "checksum": {"type": "string", "minLength": 0, "maxLength": 128}
},
"additionalProperties": false
},

"app_uid": {"anyOf": [
  {"enum": ["profile", "app_cfg", "app_rule"]},
  {"type": "null"}]},
"object_type": {"enum": ["APP", "FILE"]},
"file_path": {"anyOf": [
  {"type": "string", "minLength": 0, "maxLength": 511},
  {"type": "null"}]},
"app_admin": {"anyOf": [
  {"type": "boolean"},
  {"type": "null"}]},
"app_in_container": {"type": "boolean"},
"threat_name": {"anyOf": [
  {"type": "string", "minLength": 0, "maxLength": 511},
  {"type": "null"}]},
"threat_type": {"enum": ["ADWARE", "MALWARE", "RISKWARE", "TROJAN_BANKER", "UDS_MALWARE", "UDS_PHISHING"]},
"security_level": {"enum": ["LOW", "MEDIUM", "HIGH", "INFO"]},
"protect_status": {"enum": ["on", "threats not eliminated", "off", "av_not_installed"]},
"part": {"type": "integer", "minimum": 1, "maximum": 6},

"data": {
  "type": "object",
  "properties": {

    "LocationCollectionStatus": {"anyOf": [
      {"type": "string", "minLength": 0, "maxLength": 254, "examples": ["profile_not_assigned"]},
      {"type": "null"}]},
    "AVDBUpdateDate": {"anyOf": [
      {"type": "string", "minLength": 0, "maxLength": 254},
      {"type": "null"}]},
    "EnrollmentSpecificId": {"anyOf": [
      {"type": "string", "minLength": 0, "maxLength": 254},
      {"type": "null"}]},
    "PasswordTokenStatus": {"anyOf": [
```

```
    {"enum": ["unsupported", "active", "inactive"]},
    {"type": "null"}]},
  "KNOXAvailable": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "SIMOwnership": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "RoamingState": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "IMSI": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "ICCID": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "PhoneNumber": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "HomeCarrierNetwork": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "HomeMCC": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "HomeMNC": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "DeviceType": {"anyOf": [
    {"enum": ["Smartphone", "Tablet", "Other", "Gardliner"]},
    {"type": "null"} ] },
  "DeviceModel": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "IMEI": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "UDID": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "SerialNumber": {"anyOf": [
```

```
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]],
  "ContainerType": {"anyOf": [
    {"enum": ["samsung_knox", "android_work_profile", "none"]},
    {"type": "null"}]],
  "Platform": {"anyOf": [
    {"enum": ["iPhone OS", "Android", "Tizen", "SailfishOS", "Guardliner", "AuroraOS"]},
    {"type": "null"}]],
  "Version": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]],
  "DeviceOwnership": {"anyOf": [
    {"enum": ["Corporate", "Personal", "None"]},
    {"type": "null"}]],
  "MonitorVersion": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]],
  "DOPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]],
  "DAPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]],
  "POPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]],
  "KNOXPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]],
  "KNOXPremiumPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]],
  "SYSTEMPrivilege": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]],
  "IP": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]],
  "Supervised": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]],
  "KioskMode": {"anyOf": [
```

```
    {"type": "boolean"},
    {"type": "null"}]},
  "PasswordPresent": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "AVProtection": {"anyOf": [
    {"enum": ["on", "off", "threats not eliminated", "av_not_installed"]},
    {"type": "null"}]},
  "AVDBUpdatyDate": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 32, "example": ["2017-11-14 07:45"]},
    {"type": "null"}]},
  "LastScanAV": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 32, "example": ["2017-11-14 07:45"]},
    {"type": "null"}]},
  "WiFiMAC": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "BluetoothMAC": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "AvailableRAM": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "AvailableSpace": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "IsCloudBackupEnabled": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "MobileOperatorName": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "CurrentMCC": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "CurrentMNC": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "iTunesStoreAccountHash": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "StorageEncrypted": {"anyOf": [
```

```
    {"enum": ["Unsupported", "Full disk", "File based"]},
    {"type": "null"}]},
  "IsLocationEnabled": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "IsLostModeEnabled": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "PasscodeCompliant": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "PasscodeCompliantWithProfiles": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "AndroidAPILevel": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "KNOXAvailable": {"anyOf": [
    {"type": "boolean"},
    {"type": "null"}]},
  "KNOXAPIVersion": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "ScreenHeight": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "ScreenWidth": {"anyOf": [
    {"type": "integer", "minimum": 1, "maximum": 9223372036854775807},
    {"type": "null"} ] },
  "SecurityPatchLevel": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "OSArchitecture": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
  "ManagementStrategy": {"anyOf": [
    {"enum": ["personal_work_profile_management", "corporate_work_profile_management",
      "device_management", "device_management_knox", "device_and_knox_container_management"]},
    {"type": "null"}]},
  "LinuxDistribution": {"anyOf": [
    {"type": "string", "minLength": 0, "maxLength": 254},
    {"type": "null"}]},
```

```
    "LinuxKernelVersion": {"anyOf": [
      {"type": "string", "minLength": 0, "maxLength": 254},
      {"type": "null"}]},
    "LinuxDistributionVersion": {"anyOf": [
      {"type": "string", "minLength": 0, "maxLength": 254},
      {"type": "null"}]}
  },
  "additionalProperties": false
},

"token": {"type": "string", "minLength": 8, "maxLength": 511},

"apps": {
  "type": "array",
  "items":
    {
      "type": "object",
      "properties": {
        "uid": {"type": "string", "minLength": 0, "maxLength": 511},
        "name": {"type": "string", "minLength": 0, "maxLength": 511},
        "version_code": {"type": "integer", "minimum": 0, "maximum": 9223372036854775807},
        "version_name": {"type": "string", "minLength": 0, "maxLength": 511},
        "enabled": {"type": "boolean"},
        "reputation": {"enum": ["SYSTEM", "TRUSTED", "UNKNOWN", "UNTRUSTED"]},
        "is_threat": {"type": "boolean"}
      },
      "additionalProperties": false
    },
  "additionalItems": false
},

"iccid": {"type": "string", "minLength": 19, "maxLength": 19},
"imsi": {"type": "string", "minLength": 15, "maxLength": 15},
"server_type": {"enum": ["MDMServer", "SocketServer", "SCEPServer"]},
"server_url": {"type": "string", "minLength": 0, "maxLength": 511},
"time": {"type": "integer", "minimum": 0, "maximum": 9223372036854775807},
"time_zone_minutes": {"type": "integer", "minimum": -720, "maximum": 840},
"horizontal_accuracy_meters": {"type": "integer", "minimum": 0, "maximum": 2147483647},
"latitude": {"type": "number", "minimum": -90, "maximum": 90},
"longitude": {"type": "number", "minimum": -180, "maximum": 180},
"provider": {"anyOf": [
  {"enum": ["GPS", "NETWORK", "FUSED", "PASSIVE"]},
```

```
    {"type": "null"}]],  
  
  "app": {  
    "type": "object",  
    "properties": {  
      "uid": {"type": "string", "minLength": 0, "maxLength": 511},  
      "name": {"type": "string", "minLength": 0, "maxLength": 511},  
      "version_code": {"type": "integer", "minimum": 1, "maximum": 2147483647},  
      "version_name": {"type": "string", "minLength": 0, "maxLength": 511},  
      "type": {"enum": ["corporate", "incorporate"]},  
      "enabled": {"enum": [0, 1]},  
      "can_disable": {"enum": [0, 1]},  
      "can_delete": {"enum": [0, 1]},  
      "is_managed": {"enum": [0, 1]},  
      "reputation": {"enum": ["SYSTEM", "TRUSTED", "UNKNOWN", "UNTRUSTED"]},  
      "is_threat": {"enum": [0, 1]},  
      "datetime_old": {"type": "string", "minLength": 16, "maxLength": 40, "example": ["2018-09-13 06:57:32.0  
UTC+03:00"]},  
      "datetime_new": {"type": "string", "minLength": 16, "maxLength": 40, "example": ["2017-11-14 07:45:14.0  
UTC-02:00"]},  
  
      "locked_by": {  
        "type": "array",  
        "items": {  
          "enum": ["command", "policy", "password", "kiosk"]  
        },  
        "additionalItems": false  
      },  
    },  
    "additionalProperties": false  
  },  
  "additionalProperties": false  
},  
"additionalProperties": false  
},  
"additionalItems": false  
}
```

Сообщение об установленных приложениях

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "/api/v2/applist",
  "$comment": "Соответствует всем предъявленным требованиям",
  "description": "X-MCC-ID: <long: kit_id>",
  "type": "object",
  "required": ["appsDevice", "appsContainer"],
  "properties": {
    "appsDevice": {
      "type": "array",
      "items": {
        "type": "object",
        "required": ["uid", "title", "versionName", "versionCode", "enabled"],
        "properties": {
          "uid": {"type": "string", "minLength": 1, "maxLength": 256},
          "title": {"type": "string", "minLength": 1, "maxLength": 256},
          "versionName": {"type": "string", "minLength": 1, "maxLength": 256},
          "versionCode": {"type": "string", "minLength": 1, "maxLength": 256},
          "enabled": {"type": "boolean"}
        }
      },
      "additionalProperties": false
    },
    "additionalItems": false
  },
  "appsContainer": {
    "type": "array",
    "items": {
      "type": "object",
      "required": ["uid", "title", "versionName", "versionCode", "enabled"],
      "properties": {
        "uid": {"type": "string", "minLength": 1, "maxLength": 256},
        "title": {"type": "string", "minLength": 1, "maxLength": 256},
        "versionName": {"type": "string", "minLength": 1, "maxLength": 256},
        "versionCode": {"type": "string", "minLength": 1, "maxLength": 256},
        "enabled": {"type": "boolean"}
      }
    }
  }
}
```



```
    },
    "additionalProperties": false
  },
  "additionalItems": false
}
},
"additionalProperties": false
}
```

Очередь

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "/api/v2/queue",
  "$comment": "Соответствует всем предъявленным требованиям",
  "description": "X-MCC-ID: <long: kit_id>",
  "type": "array",
  "items":
  {
    "type": "object",
    "required": ["timestamp", "result", "id"],
    "properties": {
      "timestamp": {"type": "integer", "minimum": 0, "maximum": 9223372036854775807},
      "result": {"type": "integer", "minimum": -2147483647, "maximum": 2147483647},
      "id": {"type": "string", "minLength": 1, "maxLength": 128},
      "error": {"type": "string", "minLength": 1, "maxLength": 1024}
    },
    "additionalProperties": false
  },
  "additionalItems": false
}
```

Отметить приложение для установки или удаления из store

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "/store/apps/<app_uid>",
  "$comment": "Соответствует всем предъявленным требованиям",
  "description": "Content-Type: application/json",
  "type": "object",
  "properties": {
    "user_install": {"type": "boolean"},
    "is_container": {"type": "boolean"}
  },
  "additionalProperties": false
}
```

Тестовое описание plist

```
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="plist">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="dict">
          <xs:complexType>
            <xs:choice maxOccurs="unbounded" minOccurs="0">
              <xs:element type="xs:string" name="key"/>
              <xs:element type="xs:string" name="string"/>
            </xs:choice>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
      <xs:attribute type="xs:float" name="version"/>
    </xs:complexType>
  </xs:element>
```

```
</xs:schema>
```

Загрузка приложения

```
    openapi: "3.0.2"
info:
  title: Загрузка приложения
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v1/downloads/{app_id}:
    parameters:
      - name: app_id
        in: path
        required: true
        schema:
          type: integer
          minimum: 0
          maximum: 9223372036854775807
      - name: X-MCC-ID
        in: header
        description: Идентификатор устройства
        required: true
        schema:
          type: integer
          minimum: 0
          maximum: 9223372036854775807
    get:
      responses:
        200:
          content:
            application/octet-stream:
              example: file_bytes stream
          description: Дистрибутив корпоративного приложения /static/filename.apk
```

```
# ответы по kit_id
400:
  description: Bad request не передан номер комплекта
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
475:
  description: Bad request номер комплекта не найден, нет приложения, приложение не поддерживается ОС комплекта
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string

head:
  responses:
    default:
```

```
description: OK
headers:
  Content-Type:
    schema:
      type: string
  Content-Length:
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN
```

Обновление монитора

```
openapi: "3.0.2"
info:
  title: Обновление монитора
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v1/monitor_update_config/{deploy_location}:
    parameters:
      - name: deploy_location
        in: path
        description: Устройство или контейнер
        required: true
        schema:
          type: string
          enum:
            - device
            - container
      - name: X-MCC-ID
        in: header
        description: Идентификатор устройства
```

```
required: true
schema:
  type: integer
  minimum: 0
  maximum: 9223372036854775807

get:
  responses:
    200:
      content:
        application/json:
          schema:
            {}
      description: Конфигурация монитора

# ответы по kit_id
475:
  description: Bad request
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
      Allow:
        schema:
```

```
        type: string
content:
  text/html:
    schema:
      type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
```

Управление Монитором iOS

```
openapi: 3.0.2
info:
  title: Управление устройствами iOS - через собственный монитор НИИСОКБ
  version: "1.0"
  #Соответствует требованиям КЗ Blocker КБ-ОАС-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /monitor:
    parameters:
      - name: Cookie
        in: header
        required: false
```

```
  schema:
    type: string
  description: jwt_session ?

put:
  description: plist or iOS
  requestBody:
    required: false
    content:
      application/x-apple-aspen-mdm:
        schema:
          type: string
  responses:
    200:
      description: всегда пустой json
      headers:
        Cookie:
          required: false
          schema:
            type: string
            description: jwt_session ?
      content:
        application/json:
          schema:
            {}
          example: {}

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
```



```
    - DENY
    - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
        type: string
```

Доклад iOS-устройства

```
openapi: 3.0.2
info:
  title: Управление устройствами iOS - Доклад iOS-устройства о (не)готовности принять команду
  version: "1.0"
  #Соответствует требованиям КЗ Blocker KB-OAS-1,4,5,6,8
servers:
  - url: https://sso2.safe-mobile.ru
paths:
  /mdm:
    parameters:
      - name: Cookie
        in: header
        required: false
        schema:
          type: string
        description: jwt_session

    put:
      description: plist от iOS
      requestBody:
        required: false
      content:
        application/x-apple-aspen-mdm:
          schema:
            type: string
```

```
responses:
  200:
    description: plist для iOS
    headers:
      Cookie:
        required: false
        schema:
          type: string
        description: jwt_session
    content:
      application/x-apple-aspen-mdm:
        schema:
          type: string
```

```
options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string
```

Собственный монитор НИИСОКБ

```
openapi: "3.0.2"
info:
  title: API сервера приёма универсальных событий
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru

paths:
  /v1/events:
    post:
      parameters:
        - name: User-Agent
          in: header
          description: Тип обратившегося устройства
          required: true
          schema:
            type: string
            example: Mozilla/5.0 (Linux; Android 11; SM-A750FN) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.116
            Mobile Safari/537.36
        - name: Content-Type
          in: header
          description: Тип содержимого
          required: true
          schema:
            type: string
            example: application/json
      requestBody:
        description: Универсальное событие (номер и параметры)
        content:
          application/json:
            schema:
              $ref: '../components/schemas/v1_events.json'
            example:
              [ { "timestamp": 123654123, "event": { "event_format_version": 2, "event_code": 105 } } ]
```

```
responses:
  201:
    description: Результаты выполнения команд записаны в БД
    content:
      application/json:
        schema:
          { }
  400:
    description: Неправильный запрос, возможно неправильные X-MCC-ID, Content-Type
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
  404:
    description: Устаревшая версия МДМ-сервера
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
  429:
    description: Too Many Requests, текущее количество записей в обработке сервером более 1999, надо подождать
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
```

options:

```
responses:
  200:
    description: OK
    headers:
      Content-Type:
        schema:
          type: string
      Content-Length:
        schema:
          type: integer
      X-Frame-Options:
        schema:
          type: string
          enum:
            - DENY
```

```
        - SAMEORIGIN
        Allow:
          schema:
            type: string
        content:
          text/html:
            schema:
              type: string

/api/v1/events:
  post:
    parameters:
      - name: User-Agent
        in: header
        description: Тип обратившегося устройства
        required: true
        schema:
          type: string
          example: Mozilla/5.0 (Linux; Android 11; SM-A750FN) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.116
Mobile Safari/537.36
    requestBody:
      description: Универсальное событие (номер и параметры)
      content:
        application/json:
          schema:
            $ref: '../components/schemas/v1_events.json'

    responses:
      201:
        description: Результаты выполнения команд записаны в БД
        content:
          application/json:
            schema:
              { }
      400:
        description: Неправильный запрос, возможно неправильные X-MCC-ID, Content-Type
        content:
          application/json:
            schema:
              $ref: '../components/schemas/co_error_box.json'
      404:
        description: Устаревшая версия МДМ-сервера
```

```
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
429:
  description: Too Many Requests, текущее количество записей в обработке сервером более 1999, надо подождать
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
```

```
options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string
```

Получить строку политик по kit_id

```
openapi: "3.0.2"
info:
  title: Получить строку политик по указанному kit_id
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/safelife/profile:
    parameters:
      - name: X-MCC-ID
        in: header
        description: Идентификатор устройства
        required: true
        schema:
          type: integer
          minimum: 0
          maximum: 9223372036854775807

    get:
      responses:
        200:
          content:
            text/plain:
              schema:
                type: string
                example: pol_name=pv_value
              description: Строка политик для safelife

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
```

```
    type: integer
  X-Frame-Options:
    schema:
      type: string
      enum:
        - DENY
        - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
        type: string
```

head:

```
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```


Службное API для монитора iOS

```
openapi: 3.0.2
info:
  title: Службное API для нашего монитора iOS
  version: "1.0"
  #Соответствует требованиям КЗ Blocker KB-OAS-1,4,5,6,8
servers:
- url: https://sso2.safe-mobile.ru
paths:
  /check/mdm/above/4/6:

    get:
      description: запрос минимальной версии МДМ
      responses:
        200:
          description: OK

    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
              enum:
                - DENY
                - SAMEORIGIN
            Allow:
              schema:
                type: string
          content:
            text/html:
              schema:
                type: string
```

```
head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```

Запрос информации о доверенном приложении

```
openapi: "3.0.2"
info:
  title: Запрос информации о доверенном приложении
  version: "1.0"
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/apps/manifest/{app_uid}/{app_id}_{kit_id}:
    parameters:
      - name: app_uid
        in: path
        description: uid приложения
        required: true
        schema:
          type: string
        example: ru.niisokb.monitor
      - name: app_id
```

```
in: path
description: id приложения
required: true
schema:
  type: integer
example: 100500
- name: kit_id
in: path
description: Идентификатор устройства
required: true
schema:
  type: integer
  minimum: 1
  maximum: 9223372036854775807
example: 109
```

```
get:
  responses:
    200:
      description: plist для iOS
      content:
        application/x-apple-aspen-mdm:
          schema:
            type: string
    403:
      description: Несоответствие идентификатора приложению
      content:
        application/json:
          schema:
            type: string
          example: App not found
```

```
options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
```

```
        type: integer
    X-Frame-Options:
        schema:
            type: string
            enum:
                - DENY
                - SAMEORIGIN
    Allow:
        schema:
            type: string
    content:
        text/html:
            schema:
                type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```

Получение настроек SCEP

```
openapi: "3.0.2"
info:
  title: Запрос конфигурации scep
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v1/mtls_scep_config:

    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
                enum:
                  - DENY
                  - SAMEORIGIN
            Allow:
              schema:
                type: string
          content:
            text/html:
              schema:
                type: string

    head:
      responses:
        default:
          description: OK
```

```
headers:
  Content-Type:
    schema:
      type: string
  Content-Length:
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN
```

```
get:
```

```
  responses:
```

```
    200:
```

```
      description: Конфигурация SCEP
```

```
      content:
```

```
        application/json:
```

```
          schema:
```

```
            type: object
```

```
            properties:
```

```
              type:
```

```
                type: string
```

```
              connection:
```

```
                type: object
```

```
                properties:
```

```
                  type:
```

```
                    type: string
```

```
                  serverUrl:
```

```
                    type: string
```

```
                  certificates:
```

```
                    type: array
```

```
                    items:
```

```
                      properties:
```

```
                        type:
```

```
                          type: string
```

```
                        fileFormat:
```

```
                          type: string
```

```
                        certificate:
```

```
                          type: string
```

```
        password:
          type: string
      subjectName:
        type: string
      san:
        type: object
        properties:
          ntPrincipalName:
            type: array
            items:
              type: string
          rfc822Name:
            type: array
            items:
              type: string
          dnsName:
            type: array
            items:
              type: string
          uniformResourceIdentifier:
            type: array
            items:
              type: string

      challenge:
        type: string
      keySize:
        type: integer
      encryptionAlgorithm:
        type: string
      pollingAttempts:
        type: integer
      pollingTimeoutMinutes:
        type: integer

400:
  description: Ошибка запроса
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
```

Получение иконки приложения при загрузке через SafeStore

```
openapi: 3.0.2
info:
  title: Запрос иконки приложения
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
- url: https://sso1.safe-mobile.ru
- url: https://sso2.safe-mobile.ru
paths:
  /api/v1/apps/{app_uid}/icons/{app_id}:
    parameters:
      - name: app_uid
        in: path
        required: true
        schema:
          type: string
      - name: app_id
        in: path
        required: true
        schema:
          type: integer
    get:
      responses:
        200:
          description: Возврат байт иконки
          content:
            text/html:
              schema:
                title: Icon returned
                example: Icon bytes
        475:
          description: Icon not found
          content:
            text/html:
              schema:
                type: string
                example: Icon not found

options:
```



```
responses:
  200:
    description: OK
    headers:
      Content-Type:
        schema:
          type: string
      Content-Length:
        schema:
          type: integer
      X-Frame-Options:
        schema:
          type: string
        enum:
          - DENY
          - SAMEORIGIN
      Allow:
        schema:
          type: string

    content:
      text/html:
        schema:
          type: string
```

```
head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```

Получение файла корпоративного приложения

```
openapi: "3.0.2"
info:
  title: Загрузка файла приложения
  version: "1.0"
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v1/apps/installation/{kit_id}/{app_id}/{app_uid}:
    parameters:
      - name: app_uid
        in: path
        description: uid приложения
        required: true
        schema:
          type: string
          example: ru.niisokb.monitor
      - name: app_id
        in: path
        description: id приложения
        required: true
        schema:
          type: integer
          example: 100500
      - name: kit_id
        in: path
        description: Идентификатор устройства
        required: true
        schema:
          type: integer
          minimum: 1
          maximum: 9223372036854775807
          example: 109
    get:
      responses:
        200:
          description: файл приложения
```

```
403:
  description: Несоответствие идентификатора приложению
  content:
    application/json:
      schema:
        type: string
      example: App not found

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
```

```
Content-Length:
  schema:
    type: integer
X-Frame-Options:
  schema:
    type: string
  enum:
    - DENY
    - SAMEORIGIN
```

Список приложений

```
openapi: "3.0.2"
info:
  title: Список приложений
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  # ниже есть синоним вызова /store/apps
  /api/v2/store/apps:
    parameters:
      - name: X-MCC-ID
        in: header
        description: номер комплекта, целое число
        required: true
        schema:
          type: integer
      - name: Content-Type
        in: header
        description: Тип содержимого
        required: true
        schema:
          type: string

    get:
      responses:
        200:
```

```
content:
  application/json:
    schema:
      {}
  description: Список приложений

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string
  head:
    responses:
      default:
        description: OK
        headers:
          Content-Type:
            schema:
              type: string
          Content-Length:
            schema:
              type: integer
          X-Frame-Options:
```

```
    schema:
      type: string
      enum:
        - DENY
        - SAMEORIGIN

/store/apps:
  parameters:
    - name: X-MCC-ID
      in: header
      description: номер комплекта, целое число
      required: true
      schema:
        type: integer
    - name: Content-Type
      in: header
      description: Тип содержимого
      required: true
      schema:
        type: string

  get:
    responses:
      200:
        content:
          application/json:
            schema:
              {}
        description: Список приложений

  options:
    responses:
      200:
        description: OK
        headers:
          Content-Type:
            schema:
              type: string
          Content-Length:
            schema:
              type: integer
          X-Frame-Options:
```

```
    schema:
      type: string
      enum:
        - DENY
        - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
        type: string
  head:
    responses:
      default:
        description: OK
        headers:
          Content-Type:
            schema:
              type: string
          Content-Length:
            schema:
              type: integer
          X-Frame-Options:
            schema:
              type: string
            enum:
              - DENY
              - SAMEORIGIN
```

Отметить приложение для установки или удаления из store

```
openapi: "3.0.2"
info:
  title: Отметить приложение для установки или удаления из store
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
```

```
- url: https://ssol.safe-mobile.ru
paths:
  /api/v2/store/apps/{app_uid}:
    parameters:
      - name: app_uid
        in: path
        description: ИД приложения
        required: true
        schema:
          type: integer
          minimum: 0
          maximum: 9223372036854775807
      - name: Content-Type
        in: header
        description: Тип содержимого
        required: true
        schema:
          type: string
          example: application/json
      - name: X-MCC-ID
        in: header
        required: true
        schema:
          type: integer
        description: номер комплекта, целое число

    post:
      requestBody:
        content:
          application/json:
            schema:
              $ref: '../components/schemas/v2_store_application_install.json'

    responses:
      200:
        content:
          application/json:
            schema:
              {}
            description: Отметка приложения

# ответы по kit_id
```



```
400:
  description: Bad request
  content:
    application/json:
      schema:
        $ref: '../..components/schemas/co_error_box.json'
412:
  description: Bad request
  content:
    application/json:
      schema:
        $ref: '../..components/schemas/co_error_box.json'
475:
  description: Bad request нет номера комплекта или неверный json или неожиданная ошибка базы
  content:
    application/json:
      schema:
        $ref: '../..components/schemas/co_error_box.json'
```

options:

responses:

```
200:
  description: OK
  headers:
    Content-Type:
      schema:
        type: string
    Content-Length:
      schema:
        type: integer
    X-Frame-Options:
      schema:
        type: string
        enum:
          - DENY
          - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
```

```
        type: string

/store/apps/{app_uid}:
  parameters:
    - name: app_uid
      in: path
      description: ИД приложения
      required: true
      schema:
        type: integer
        minimum: 0
        maximum: 9223372036854775807
    - name: Content-Type
      in: header
      description: Тип содержимого
      required: true
      schema:
        type: string
      example: application/json
    - name: X-MCC-ID
      in: header
      required: true
      schema:
        type: integer
      description: номер комплекта, целое число

  post:
    requestBody:
      content:
        application/json:
          schema:
            $ref: '../..//components/schemas/v2_store_application_install.json'

  responses:
    200:
      content:
        application/json:
          schema:
            {}
      description: Отметка приложения

# ответы по kit_id
```

```
400:
  description: Bad request
  content:
    application/json:
      schema:
        $ref: '../..components/schemas/co_error_box.json'
412:
  description: Bad request
  content:
    application/json:
      schema:
        $ref: '../..components/schemas/co_error_box.json'
475:
  description: Bad request нет номера комплекта или неверный json или неожиданная ошибка базы
  content:
    application/json:
      schema:
        $ref: '../..components/schemas/co_error_box.json'
```

options:

responses:

```
200:
  description: OK
  headers:
    Content-Type:
      schema:
        type: string
    Content-Length:
      schema:
        type: integer
    X-Frame-Options:
      schema:
        type: string
        enum:
          - DENY
          - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
```

```
type: string
```

Получение иконки по номеру приложения

```
openapi: "3.0.2"
info:
  title: Получение иконки по номеру приложения
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/store/images/{app_id}:
    parameters:
      - name: app_id
        in: path
        description: ИД приложения
        required: true
        schema:
          type: integer
          minimum: 0
          maximum: 9223372036854775807

    get:
      responses:
        200:
          content:
            text/plain:
              schema:
                title: Icon returned
                example: Icon bytes
              description: Иконка
```

```
475:
  description: Bad request
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
```

```
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN

/store/images/{app_id}:
  parameters:
    - name: app_id
      in: path
      description: ИД приложения
      required: true
      schema:
        type: integer
        minimum: 0
        maximum: 9223372036854775807

  get:
    responses:
      200:
        content:
          text/plain:
            schema:
              title: Icon returned
              example: Icon bytes
            description: Иконка

      475:
        description: Bad request
        content:
          application/json:
            schema:
              $ref: '../components/schemas/co_error_box.json'

  options:
    responses:
      200:
        description: OK
        headers:
```

```
Content-Type:
  schema:
    type: string
Content-Length:
  schema:
    type: integer
X-Frame-Options:
  schema:
    type: string
  enum:
    - DENY
    - SAMEORIGIN
Allow:
  schema:
    type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```

Запрос объекта настроек монитора

```
openapi: "3.0.2"
info:
  title: Запрос объекта настроек монитора
```

```
version: "1.0"
#Соответствует всем предъявленным требованиям
servers:
- url: https://sso2.safe-mobile.ru
- url: https://sso1.safe-mobile.ru

paths:
  /api/v2/android/settings:
    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
              enum:
                - DENY
                - SAMEORIGIN
            Allow:
              schema:
                type: string
          content:
            text/html:
              schema:
                type: string

    head:
      responses:
        default:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
```



```
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN

get:
  parameters:
    - name: X-MCC-ID
      in: header
      description: номер комплекта, целое число
      required: true
      schema:
        type: integer

  responses:
    200:
      description: Настройки монитора (json) в Body
      content:
        application/json:
          schema:
            {}
    576:
      description: Неожиданная ошибка БД
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'
```

Запрос конфигурации приложения

```
openapi: "3.0.2"
info:
  title: Запрос конфигурации приложения
  version: "1.0"
  #Соответствует всем предъявленным требованиям
```

```
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/app_config/{config_id}/version/{version}:
    parameters:
      - name: config_id
        in: path
        description: номер правил
        required: true
        schema:
          type: integer
      - name: version
        in: path
        description: номер версии правил
        required: true
        schema:
          type: integer
      - name: X-MCC-ID
        in: header
        description: номер комплекта, целое число
        required: true
        schema:
          type: integer

    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
              enum:
                - DENY
                - SAMEORIGIN
```

```
    Allow:
      schema:
        type: string
head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
      content:
        text/html:
          schema:
            type: string
get:
  responses:
    200:
      description: ПУП (json) в Body
      content:
        application/json:
          schema:
            {}
    400:
      description: Отсутствует заголовок X-MCC-ID
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'
    475:
      description: Конфиг этой версии не найден
```

```
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
```

Запрос ПУП api_v2

```
openapi: "3.0.2"
info:
  title: Запрос ПУП
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/app_rule/{app_rule_id}/version/{version}:
    parameters:
      - name: app_rule_id
        in: path
        description: номер правил
        required: true
        schema:
          type: integer
      - name: version
        in: path
        description: номер версии правил
        required: true
        schema:
          type: integer
      - name: X-MCC-ID
        in: header
        description: номер комплекта, целое число
        required: true
        schema:
          type: integer
```

```
options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```

```
get:
  responses:
    200:
      description: ПУП (json) в Body
      content:
        application/json:
          schema:
            {}
    400:
      description: Отсутствует заголовок X-MCC-ID
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'
    475:
      description: Заголовок X-MCC-ID не содержит натуральное число
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'
```

Сообщение об установленных приложениях

```
openapi: "3.0.2"
info:
  title: DEPRICATED Сообщение об установленных приложениях
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/applist:
    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
```

```
    schema:
      type: string
  Content-Length:
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
        type: string

post:
  parameters:
    - name: X-MCC-ID
      in: header
      description: номер комплекта, целое число
      required: true
      schema:
        type: integer
    - name: Content-Type
      in: header
      description: Тип содержимого
      required: true
      schema:
        type: string
      example: application/json
  requestBody:
    description: Список приложений в json
    content:
      application/json:
        schema:
          $ref: '../components/schemas/v2_applist.json'

responses:
```

```
200:
  description: Список приложений
  content:
    application/json:
      schema:
        {}
400:
  description: Отсутствует Content-Type
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
412:
  description: Content-Type пустой или не содержит application/json
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
420:
  description: Неверный json в Body запроса
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
```

Запрос списка назначений

```
openapi: "3.0.2"
info:
  title: Запрос списка назначений
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/assignment_references:
    options:
      responses:
```



```
200:
  description: OK
  headers:
    Content-Type:
      schema:
        type: string
    Content-Length:
      schema:
        type: integer
    X-Frame-Options:
      schema:
        type: string
      enum:
        - DENY
        - SAMEORIGIN
    Allow:
      schema:
        type: string
  content:
    text/html:
      schema:
        type: string
```

```
head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
```

```
get:
```

```
parameters:
  - name: X-MCC-ID
    in: header
    required: true
    schema:
      type: integer
    description: номер комплекта, целое число
  - name: Content-Type
    in: header
    description: Тип содержимого
    required: true
    schema:
      type: string

responses:
  200:
    description: Новые команды или []
    content:
      application/json:
        schema:
          {}
        example: []
  400:
    description: Отсутствует заголовок X-MCC-ID
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
  475:
    description: Номер комплекта не найден
    content:
      application/json:
        schema:
          $ref: '../components/schemas/co_error_box.json'
```

Запрос иконки приложения

```
openapi: 3.0.2
info:
```

```
title: Запрос иконки приложения
version: "1.0"
#Соответствует всем предъявленным требованиям
servers:
- url: https://sso1.safe-mobile.ru
- url: https://sso2.safe-mobile.ru
paths:
  /api/v2/get/icon/{app_id}:
    parameters:
      - name: app_id
        in: path
        required: true
        schema:
          type: integer

    get:
      responses:
        200:
          description: Возврат байт иконки
          content:
            text/html:
              schema:
                title: Icon returned
                example: Icon bytes
        475:
          description: Icon not found
          content:
            text/html:
              schema:
                type: string
                example: Icon not found

    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
```

```
        type: integer
    X-Frame-Options:
        schema:
            type: string
            enum:
                - DENY
                - SAMEORIGIN
    Allow:
        schema:
            type: string

content:
    text/html:
        schema:
            type: string

head:
    responses:
        default:
            description: OK
            headers:
                Content-Type:
                    schema:
                        type: string
                Content-Length:
                    schema:
                        type: integer
                X-Frame-Options:
                    schema:
                        type: string
                    enum:
                        - DENY
                        - SAMEORIGIN
```

Запрос профиля устройства

```
openapi: "3.0.2"
info:
```

```
title: Запрос профиля устройства
version: "1.0"
#Соответствует всем предъявленным требованиям
servers:
- url: https://sso2.safe-mobile.ru
- url: https://sso1.safe-mobile.ru
paths:
/v2/profiles/{profile_id}/version/{version}:
  parameters:
    - name: profile_id
      in: path
      required: true
      schema:
        type: integer
      description: номер правил
    - name: version
      in: path
      required: true
      schema:
        type: integer
      description: номер версии правил
    - name: X-MCC-ID
      in: header
      required: true
      schema:
        type: integer
      description: номер комплекта, целое число

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
```

```
    enum:
      - DENY
      - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
        type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN

get:
  responses:
    200:
      description: Профиль устройства
      content:
        application/json:
          schema:
            {}
    400:
      description: Отсутствует заголовок X-MCC-ID
      content:
        application/json:
          schema:
```

```
    $ref: '../components/schemas/co_error_box.json'
475:
  description: Профиль такой версии не найден
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
576:
  description: Неожиданная ошибка БД
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
```

Очередь

```
openapi: "3.0.2"
info:
  title: Очередь - запрос очереди команд на выполнение, а так же доклад о результатах
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru

paths:
  /api/v2/queue:
    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
```

```
    schema:
      type: string
      enum:
        - DENY
        - SAMEORIGIN
  Allow:
    schema:
      type: string
  content:
    text/html:
      schema:
        type: string

post:
  parameters:
    - name: X-MCC-ID
      in: header
      description: Тип содержимого
      required: true
      schema:
        type: integer
    - name: Content-Type
      in: header
      description: Тип содержимого
      required: true
      schema:
        type: string
      example: application/json
  requestBody:
    description: Результат выполнение команд или []
    content:
      application/json:
        schema:
          $ref: '../components/schemas/v2_queue.json'
        examples:
          properties:
            value:
              timestamp: 1609448400
              result: 0
              id: "task.256"

responses:
```



```
200:
  description: Список команд для выполнения устройством или []
  content:
    application/json:
      schema:
        {}
      examples:
        properties:
          value:
            id: "Task.512"
            cmd: "some cmd"
            data: "cmd data"

400:
  description: Отсутствует Content-Type
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'

403:
  description: Попытка изменить (переписать) результат выполнения задачи или изменить сообщение об ошибке
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'

412:
  description: Content-Type пустой или не содержит application/json
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'

420:
  description: Content-Type пустой или не содержит application/json
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'

475:
  description: Заголовок X-MCC-ID не найден
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
```

```
575:
  description: Ошибка передачи следующей команды
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
576:
  description: Неожиданная ошибка БД
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
```

Получение файла

```
openapi: "3.0.2"
info:
  title: Получение файла, отправленного командой с АРМ-а
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v2/send_file/{task_id}/{checksum}:
    parameters:
      - name: task_id
        in: path
        description: ИД команды
        required: true
        schema:
          type: integer
          minimum: 0
          maximum: 9223372036854775807
      - name: checksum
        in: path
        description: контрольная сумма файла
        required: true
        schema:
```

```
    type: string
    maxLength: 256
  - name: X-MCC-ID
    in: header
    description: Идентификатор устройства
    required: true
    schema:
      type: integer
      minimum: 1
      maximum: 9223372036854775807

get:
  responses:
    200:
      content:
        application/octet-stream:
          example: file_bytes stream
          description: путь к Файлу в кэше инженерного сервера /static/filename.apk

# ответы по kit_id
400:
  description: Bad request. X-MCC-ID missing
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
412:
  description: Bad request. X-MCC-ID contains an empty string
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
475:
  description: Bad request. Kit id not found in database
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
576:
  description: ServerError. Unexpected server response, contact your administrator
  content:
    application/json:
```

```
    schema:
      $ref: '../components/schemas/co_error_box.json'

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN
        Allow:
          schema:
            type: string
      content:
        text/html:
          schema:
            type: string

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
```

```
enum:  
  - DENY  
  - SAMEORIGIN
```

Запрос списка подстановок

```
openapi: "3.0.2"  
info:  
  title: Запрос списка подстановок  
  version: "1.0"  
  #Соответствует всем предъявленным требованиям  
servers:  
  - url: https://sso2.safe-mobile.ru  
  - url: https://sso1.safe-mobile.ru  
paths:  
  /api/v2/substitutions:  
    options:  
      responses:  
        200:  
          description: OK  
          headers:  
            Content-Type:  
              schema:  
                type: string  
            Content-Length:  
              schema:  
                type: integer  
            X-Frame-Options:  
              schema:  
                type: string  
              enum:  
                - DENY  
                - SAMEORIGIN  
          Allow:  
            schema:  
              type: string
```

```
head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN

get:
  parameters:
    - name: X-MCC-ID
      in: header
      required: true
      schema:
        type: integer
      description: номер комплекта, целое число

  responses:
    575:
      description: Подстановки для этого комплекта не найдены
      content:
        application/json:
          schema:
            $ref: '../components/schemas/co_error_box.json'
    200:
      description: Список подстановок
      content:
        application/json:
          schema:
            {}
```

Запрос ПУП api_v3

```
openapi: "3.0.2"
info:
  title: Запрос ПУП
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v3/app_rule/{app_rule_id}/version/{version}:
    parameters:
      - name: app_rule_id
        in: path
        required: true
        schema:
          type: integer
        description: номер правил
      - name: version
        in: path
        required: true
        schema:
          type: integer
        description: номер версии правил
      - name: X-MCC-ID
        in: header
        required: true
        schema:
          type: integer
        description: номер комплекта, целое число
    get:
      responses:
        200:
```

```
description: ПУП (json) в Body
content:
  application/json:
    schema:
      {}
400:
description: Отсутствует заголовок X-MCC-ID
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'
475:
description: Заголовок X-MCC-ID не содержит натуральное число
content:
  application/json:
    schema:
      $ref: '../components/schemas/co_error_box.json'

options:
  responses:
    200:
description: OK
headers:
  Content-Type:
    schema:
      type: string
  Content-Length:
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
      enum:
        - DENY
        - SAMEORIGIN
  Allow:
    schema:
      type: string

head:
  responses:
    default:
```



```
description: OK
headers:
  Content-Type:
    schema:
      type: string
  Content-Length:
    schema:
      type: integer
  X-Frame-Options:
    schema:
      type: string
    enum:
      - DENY
      - SAMEORIGIN
```

Запрос иконки по номеру

```
openapi: 3.0.2
info:
  title: Запрос иконки по номеру
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v3/get/icon/{ico_id}:
    parameters:
      - name: ico_id
        in: path
        required: true
        schema:
          type: integer
    get:
      responses:
        200:
          description: Возврат байт иконки
          content:
            text/html:
```

```
    schema:
      example: Icon bytes
475:
  description: Иконка не найдена
  content:
    text/html:
      schema:
        type: string
        example: Icon not found

head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
          enum:
            - DENY
            - SAMEORIGIN

options:
  responses:
    200:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
```

```
enum:
  - DENY
  - SAMEORIGIN
Allow:
schema:
type: string
```

Запрос списка назначений

```
openapi: "3.0.2"
info:
  title: Запрос списка назначений
  version: "1.0"
  #Соответствует всем предъявленным требованиям
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v3/assignment_references:
    options:
      responses:
        200:
          description: OK
          headers:
            Content-Type:
              schema:
                type: string
            Content-Length:
              schema:
                type: integer
            X-Frame-Options:
              schema:
                type: string
              enum:
                - DENY
                - SAMEORIGIN
          Allow:
            schema:
              type: string
          content:
            text/html:
```

```
    schema:
      type: string
head:
  responses:
    default:
      description: OK
      headers:
        Content-Type:
          schema:
            type: string
        Content-Length:
          schema:
            type: integer
        X-Frame-Options:
          schema:
            type: string
            enum:
              - DENY
              - SAMEORIGIN
get:
  parameters:
    - name: X-MCC-ID
      in: header
      required: true
      schema:
        type: integer
      description: номер комплекта, целое число
    - name: Content-Type
      in: header
      description: Тип содержимого
      required: true
      schema:
        type: string
  responses:
    200:
      description: Новые команды или []
      content:
        application/json:
          schema:
```

```
    {}
    example: []
400:
  description: Отсутствует заголовок X-MCC-ID
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
475:
  description: Номер комплекта не найден
  content:
    application/json:
      schema:
        $ref: '../components/schemas/co_error_box.json'
```

Запрос ПУП api-v4

```
openapi: "3.0.2"
info:
  title: Запрос ПУП
  version: "4.0"
servers:
  - url: https://sso2.safe-mobile.ru
  - url: https://sso1.safe-mobile.ru
paths:
  /api/v4/app_rule/{app_rule_id}/version/{version}:
    parameters:
      - name: app_rule_id
        in: path
        required: true
        schema:
          type: integer
        description: номер правил
      - name: version
        in: path
        required: true
        schema:
          type: integer
        description: номер версии правил
```

```
- name: X-MCC-ID
  in: header
  required: true
  schema:
    type: integer
  description: номер комплекта, целое число
```

```
get:
```

```
  responses:
```

```
    200:
```

```
      description: ПУП (json) в Body
```

```
      content:
```

```
        application/json:
```

```
          schema:
```

```
            {}
```

```
          example: {
```

```
            "data": {
```

```
              "aek": 12,
```

```
              "appRuleType": "CORPORATE",
```

```
              "checksum": "F5ED97081ACEFC9B205F710C4DCC51C7CA4B37BE",
```

```
              "deployLocation": "DEVICE",
```

```
              "id": 6,
```

```
              "policies": [
```

```
                {"id": "mustBeInstalled", "value": 1 },
```

```
                {"id": "mustBeEnabled", "value": 1},
```

```
                {"id": "removeOnControlOff", "value": 1}
```

```
              ],
```

```
            "uid": "ru.appllication.name_a1",
```

```
            "version": 1
```

```
          }
```

```
        }
```

```
    400:
```

```
      description: Отсутствует заголовок X-MCC-ID
```

```
      content:
```

```
        application/json:
```

```
          schema:
```

```
            $ref: '../components/schemas/co_error_box.json'
```

```
    475:
```

```
      description: Заголовок X-MCC-ID не содержит натуральное число
```

```
      content:
```

```
        application/json:
```

```
          schema:
```

\$ref: '../components/schemas/co_error_box.json'

options:

responses:

200:

description: OK

headers:

Content-Type:

schema:

type: string

Content-Length:

schema:

type: integer

X-Frame-Options:

schema:

type: string

enum:

- DENY

- SAMEORIGIN

Allow:

schema:

type: string

head:

responses:

default:

description: OK

headers:

Content-Type:

schema:

type: string

Content-Length:

schema:

type: integer

X-Frame-Options:

schema:

type: string

enum:

- DENY

- SAMEORIGIN

Изменения в версии 9.0

В версии API MDM 9.0 (относительно версии 8.3) были добавлены компонент:

Роут	Наименование
/api/v1/apps/icons	Получение иконки приложения при загрузке через SafeStore
/api/v1/apps/installation	Получение файла корпоративного приложения