# BCDNS API接口

### 1.服务初始化：/internal/vc/init

创建根VC和API key

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *apikey* | *API key* | *string* | *必填* | *非空，非null* |  |
| *apiSecret* | *API secret* | *string* | *必填* | *非空，非null* |  |
| *issuerId* | *发证方id* | *string* | *必填* | *非空，非null* |  |

### 2.获取Token：/internal/vc/get/accessToken

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *apikey* | *API key* | *string* | *必填* | *非空，非null* | *长度为16* |
| *apiSecret* | *API secret* | *string* | *必填* | *非空，非null* | *长度为40* |
| *issuerId* | *拥护* | *string* | *必填* | *非空，非null* | *检查以did:bid开头* |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *accessToken* | *token用于调用审核和吊销接口时的权限控制* | *string* | *必填* | *非空，非null* |  |
| *expireIn* | *token的有效时间* | *int* | *必填* | *非空，非null* | *36000秒* |

### 3.申请凭证：/external/vc/apply

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *content* | *申请凭证的序列化* | *byte[]* | *必填* | *非空，非null* |  |
| *credentialType* | *凭证类型* | *int* | *必填* | *非空，非null* | *只能为1，2，3* |
| *publicKey* | *申请人公钥* | *string* | *必填* | *非空，非null* |  |
| *sign* | *对申请内容签名* | *byte[]* | *必填* | *非空，非null* |  |
| *signAlgo* | *签名算法，申请区块链域名时，可以采用不用类型的签名算法，需要指定Ed25519或者SM3withSM2* | *string* | *非必填，只有申请域名证书的时候为必填项* |  |  |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *applyNo* | *凭证申请编号* | *string* | *必填* | *非空，非null* |  |

### 4.审核凭证申请：/internal/vc/audit

*接口输入参数*

***header***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *accessToken* | *token* | *string* | *必填* | *非空，非null* |  |

***body***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *applyNo* | *凭证申请编号* | *string* | *必填* | *非空，非null* | *长度32* |
| *reason* | *原因* | *string* | *必填* | *非空，非null* | *长度不超过1024字符* |
| *status* | *审核状态* | *int* | *必填* | *非空，非null* | *值为2（通过）、3（不通过）* |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *txHash* | *凭证payload信息* | *string* | *必填* | *非空，非null* |  |

### 5.待发证、持证方列表：/internal/vc/list

*接口输入参数*

***header***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *accessToken* | *token* | *string* | *必填* | *非空，非null* |  |

***body***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *status* | *状态(0待申请；1待审核 2已通过 3未通过）* | *int[]* | *必填* | *非空，非null* | *参数只校验个数为1到4个* |
| *pageStart* | *起始页* | *int* | *非必填* |  | 默认为1 |
| *pageSize* | *页大小* | *int* | *非必填* |  | *默认为10* |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *applyNo* | *申请编号* | *string* | *必填* | *非空，非null* |  |
| *credentialId* | *发证方id* | *string* | *必填* | *非空，非null* |  |
| *status* | *状态(1待审核 2已通过 3未通过4撤销）* | *int* | *必填* | *非空，非null* |  |
| *userId* | *用户id* | *byte[]* | *必填* | *非空，非null* |  |
| *createTime* | *申请时间* | *long* | *必填* | *非空，非null* |  |
| *auditTime* | *审核时间* | *long* | *必填* | *非空，非null* |  |
| *credentialType* | *凭证id* | *int* | *必填* | *非空，非null* |  |
| *isDownload* | *是否下载* | *int* | *必填* | *非空，非null* |  |

### 6.凭证颁发详情：/internal/vc/detail

*接口输入参数*

***header***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *accessToken* | *token* | *string* | *必填* | *非空，非null* |  |

***body***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *credentiald* | *凭证id* | *string* | *否* |  |  |
| *applyNo* | *申请编号* | *string* | *否* |  |  |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *content* | *申请内容* | *string* | *必填* | *非空，非null* |  |
| *status* | *状态(1待审核 2已通过 3未通过）* | *string* | *必填* | *非空，非null* |  |
| *applyNo* | *申请编号* | *String* | *必填* | *非空，非null* |  |
| *applyUser* | *申请用户* | *string* | *必填* | *非空，非null* |  |
| *applyTime* | *申请时间* | *string* | *必填* | *非空，非null* |  |
| *auditId* | *审核人id* | *string* |  |  |  |
| *auditTime* | *审核时间* | *long* |  |  |  |
| *auditRemark* | *审核备注* | *string* |  |  |  |

### 7.凭证颁发状态：/external/vc/apply/status

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *applyNo* | *申请编号* | *string* | *是* | *非空，非null* | *长度为32* |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *creadentialId* | *凭证id* | *string* | *否* |  |  |
| *status* | *状态(1待审核 2已通过 3未通过）* | *string* | *必填* | *非空，非null* |  |
| *userId* | *用户id* | *string* | *否* |  |  |

### 9.凭证状态：/external/vc/status

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *creadentialId* | *凭证id* | *string* | *必填* | *非空，非null* | *前缀为did:bid* |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *creadentialId* | *凭证id* | *string* | *必填* | *非空，非null* |  |
| *status* | *状态(1待审核 2已通过 3未通过）* | *string* | *必填* | *非空，非null* |  |
| *userId* | *用户id* | *string* | *必填* | *非空，非null* |  |

### 10.凭证下载：/external/vc/download

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *creadentialId* | *凭证id* | *string* | *必填* | *非空，非null* | *前缀为did:bid* |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *credential* | *凭证序列化结果* | *byte[]* | *必填* | *非空，非null* |  |

### 11.凭证撤销blob：/internal/vc/revocation

*接口输入参数*

***header***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *accessToken* | *token* | *string* | *必填* | *非空，非null* |  |

***body***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *credentialId* | *凭证id* | *string* | *必填* | *非空，非null* | *前缀为did:bid* |
| *remark* | *撤销备注* | *string* | *必填* | *非空，非null* | *长度不超过1024个字符* |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *txHash* | *交易hash* | *string* | *必填* | *非空，非null* |  |

### 12.根证书查询：/external/vc/root

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *rootVc* | *根证书* | *byte[]* | *必填* | *非空，非null* |  |

### 13.注册ptc的信任根：/external/vc/add/ptctrustroot

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *ptcTrustRoot* | *ptc的信任根* | *byte[]* | *必填* | *非空，非null* |  |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *status* | *添加状态* | *bool* | *必填* | *非空，非null* |  |
| *message* | *描述信息* | *string* | *必填* | *非空，非null* |  |

### 14.注册tpbta信息：/external/vc/add/tpbta

*接口输入参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *vcId* | *ptc凭证的id* | string | *必填* | *非空，非null* |  |
| *tpbta* | *tpbta信息* | *byte[]* | *必填* | *非空，非null* |  |
| *signAlgo* | *签名算法* | *string* | *必填* | *非空，非null* |  |
| *sign* | *签名信息* | *byte[]* | *必填* | *非空，非null* |  |

*接口输出参数*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***字段名称*** | ***字段描述*** | ***类型*** | ***约束*** | ***具体check点*** | ***备注*** |
| *status* | *添加状态* | *bool* | *必填* | *非空，非null* |  |
| *message* | *描述信息* | *string* | *必填* | *非空，非null* |  |

### 错误码说明

|  |  |
| --- | --- |
| ***错误码*** | ***错误描述*** |
| *0* | *成功* |
| *1* | *无效参数* |
| *100100* | *系统内部错误* |
| *100101* | *平台重复初始化* |
| *100102* | *API-KEY不存在* |
| *100103* | *API-KEY错误* |
| *100104* | *token无效* |
| *100105* | *签名错误* |
| *100106* | *凭证申请不存在* |
| *100107* | *凭证构建失败* |
| *100108* | *凭证已经被审核* |
| *100109* | *交易提交失败* |
| *100110* | *凭证不存在* |
| *100111* | *凭证已经被撤销* |
| *100112* | *凭证已下载* |
| *100113* | *无效私钥* |
| *100114* | *解析密文私钥失败* |