

Vault Formation

Create Vault

Creates a new vault with specified configuration.

Endpoint

```
POST /api/v1/vaults
```

Sample Request

```
{
  "vault_name": "Example Vault",
  "vault_type": "public",
  "privacy_type": "semi-private",
  "admin_user": {
    "wallet_address": "addr1q9example123",
    "email": "admin@example.com"
  },
  "asset_settings": {
    "allowed_asset_types": ["NFT", "CNT"],
    "policy_ids": ["policy12345", "policy67890"],
    "valuation_type": "LBE",
    "floor_price_percentage": 90,
    "max_assets": 100
  },
  "investment_settings": {
    "investment_window_duration": "48h", // ISO-like duration
    "investment_start_time": "2024-11-24T10:00:00Z", // Optional; defaults to vault creation time
    "minimum_investment_reserve": 10.0,
    "ft_supply": 100000,
    "ft_token_decimals": 6,
    "lp_percentage": 10
  },
  "governance_settings": {
    "creation_threshold": 5,
    "start_threshold": 10,
    "vote_threshold": 50,
    "execution_threshold": 60,
    "cosigning_threshold": 3
  }
}
```

```
}  
}
```

Sample Response (201: Created)

```
{  
  "vault_id": "vault123",  
  "vault_name": "Example Vault",  
  "transaction": {  
    "tx_hash": "b26f8c9a0d1a4a9b8b12f9f9a8c1234567e9d0f1c234567890abcdef",  
    "status": "confirmed",  
    "block_height": 1234567  
  },  
  "investment_window": {  
    "duration": "48h",  
    "start_time": "2024-11-24T10:00:00Z",  
    "end_time": "2024-11-26T10:00:00Z"  
  },  
  "status": "created",  
  "created_at": "2024-11-23T10:00:00Z"  
}
```

Add Assets to Vault

Add assets during the asset window period.

HTTP Request

```
POST /api/v1/vaults/{vaultId}/assets
```

Sample Request

```
{  
  "policy_id": "policy12345",  
  "asset_name": "ExampleAsset",  
  "valuation_method": "floor_price",  
  "metadata": {  
    "creator": "CreatorAddress",  
    "legal_proof": "https://proof.example.com/doc.pdf"  
  }  
}
```

Sample Response (201: Created)

```
{
  "vault_id": "vault123",
  "asset_id": "asset456",
  "transaction": {
    "tx_hash": "a92f81e3b69c4d12b34c567890abcde1234567890abcdef56789abc",
    "status": "confirmed",
    "block_height": 1234570
  },
  "status": "added",
  "valuation": {
    "method": "floor_price",
    "value": 1000000
  },
  "created_at": "2024-11-23T11:00:00Z"
}
```

Remove Asset

Remove assets during the asset window period. Will fail if attempted before or after the window period.

Endpoint

```
DELETE /api/v1/vaults/{vaultId}/assets/{assetId}
```

Sample Response

```
{
  "status": "success",
  "data": {
    "assetId": "asset_123",
    "removalStatus": "COMPLETED",
    "transactionHash": "tx_hash789...",
    "updatedValuation": {
      "total": "140000",
      "timestamp": "2024-12-01T01:35:00Z"
    }
  }
}
```

Get Vault Valuation

Calculate current vault valuation based on assets.

HTTP Request

```
GET /api/v1/vaults/{vaultId}/valuation
```

Sample Response

```
{
  "status": "success",
  "data": {
    "valuation": {
      "total": "150000",
      "breakdown": {
        "nftValue": "120000",
        "cntValue": "30000"
      },
      "assetCounts": {
        "nfts": 2,
        "cnts": 1
      },
      "timestamp": "2024-12-01T01:30:00Z"
    }
  }
}
```

List Vault Assets

List all assets in the vault.

HTTP Request

```
GET /api/v1/vaults/{vaultId}/assets
```

Sample Response

```
{
  "status": "success",
  "data": {
    "assets": [{
```

```
"assetId": "asset_123",
"type": "NFT",
"contractAddress": "addr_nft123...",
"tokenId": "42",
"addedAt": "2024-12-01T01:00:00Z",
"status": "LOCKED",
"currentValue": "90000"
}],
"pagination": {
  "page": 1,
  "limit": 20,
  "total": 45
}
}
```

Update Vault AllowList

Updates the list of wallets allowed to participate in the vault, and their type.

HTTP Request

```
PATCH /api/v1/vaults/{vaultId}/allowlist
```

Sample Request

```
{
  "type": "ASSET|CONTRIBUTOR|INVESTOR",
  "operation": "ADD|REMOVE",
  "addresses": ["addr1...", "addr2..."]
}
```

Sample Response

```
{
  "status": "success",
  "data": {
    "updatedAllowList": {
      "type": "ASSET",
      "count": 24,
      "lastUpdated": "2024-12-01T02:00:00Z"
    }
  }
}
```

```
}  
}  
}
```

Vault Performance Metrics

Returns some vault performance metrics.

HTTP Request

```
GET /api/v1/vaults/{vaultId}/metrics
```

Sample Response

```
{  
  "status": "success",  
  "data": {  
    "valuation": {  
      "initial": "100000",  
      "current": "150000",  
      "change": "50.00"  
    },  
    "participation": {  
      "uniqueVoters": 45,  
      "averageQuorum": "68.00",  
      "proposalCount": 12  
    },  
    "timeline": {  
      "created": "2024-11-20T10:00:00Z",  
      "locked": "2024-12-01T02:00:00Z",  
      "age": "11d 16h"  
    }  
  }  
}
```

Vault Activity

Returns a vault activity log.

HTTP Request

```
GET /api/v1/vaults/{vaultId}/activity
```

Sample Response

```
{
  "status": "success",
  "data": {
    "activities": [{
      "type": "ASSET_ADDED|PROPOSAL_CREATED|VOTE_CAST",
      "timestamp": "2024-12-01T01:00:00Z",
      "actor": "addr_user123...",
      "details": {},
      "transactionHash": "tx_hash123..."
    }],
    "pagination": {
      "page": 1,
      "limit": 20,
      "total": 156
    }
  }
}
```

Update Vault Settings

Lets you update modifiable vault settings.

Sample Request

```
{
  "investorAllowList": {
    "enabled": true,
    "addresses": ["addr1..."]
  },
  "valuationType": "LBE",
  "termination": {
    "fdp": "12.00"
  }
}
```

This would return the standard Success/Fail response object.