# Rest Interface

De Explorer biedt een REST interface aan die JSON informatie stuurt voor de volgende zaken:

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Type | Path | Beschrijving |
| RG1 | GET | /Block/{:hash} | Een GET request om de informatie op te halen van een block met deze hash. |
| RG2 | GET | /NextBlock/{:hash} | Een GET request om het block op te halen welke volgt op de block met het gegeven hash. |
| RG3 | GET | /PreviousBlock/{:hash} | Een GET request om het block op te halen welk voorafging aan het block met deze hash. |
| RG4 | GET | /BlocksFrom/{:date}  /BlocksFrom/{:fromdate}/{:todate} | Een GET request om alle blocks op te halen welke op deze datum zijn gemaakt.  Format: YYYY-MM-DD |
| RG5 | GET | /BlocksOwnedBy/{:walletID} | Een GET request om alle blocks op te halen die zijn gevalideerd door de persoon met deze walletID. |
| RG6 | GET | /getNextBlocks/{:hash} | Een GET request om alle blocks op te halen welke later zijn aangemaakt dan het block met de gegeven hash. |

**RG1**

In het geval dat er een block wordt gevonden volgt de teruggestuurde data dit formaat:

|  |
| --- |
| {  "Header": {  "BlockNumber": 14,  "Hash": "3fb2e90f76784a3c649a26172ffde2a7df9c3f9c27a98bd050510b9221bb8736",  "PreviousHash": "b031c78cc68076daa6c29276ed630197856001bde2c0b184c6d11d7c672e52ad",  "Reward": 20.51,  "TimeStamp": 1525860691,  "Validator": "WalletIDDummy",  "Version": 1.0  },  "Transactions": [  {  "Amount": 20.51,  "Recipient": "WalletIDDummy",  "TimeStamp": 1525860690,  "Type": "COIN"  },  {  "Amount": 12,  "Recipient": "WalletIDDummy2",  "Sender": "WalletIDDummy3",  "TimeStamp": 1525752091,  "Type": "COIN"  },  {  "Amount": 5,  "Recipient": "WalletIDDummy4",  "Sender": "WalletIDQuestionServer",  "TimeStamp": 1525839266,  "Type": "STAKE"  }  ]  } |

**RG2**

In het geval dat er een block wordt gevonden volgt de teruggestuurde data dit formaat:

|  |
| --- |
| {  "Header": {  "BlockNumber": 14,  "Hash": "3fb2e90f76784a3c649a26172ffde2a7df9c3f9c27a98bd050510b9221bb8736",  "PreviousHash": "b031c78cc68076daa6c29276ed630197856001bde2c0b184c6d11d7c672e52ad",  "Reward": 20.51,  "TimeStamp": 1525860691,  "Validator": "WalletIDDummy",  "Version": 1.0  },  "Transactions": [  {  "Amount": 20.51,  "Recipient": "WalletIDDummy",  "TimeStamp": 1525860690,  "Type": "COIN"  },  {  "Amount": 12,  "Recipient": "WalletIDDummy2",  "Sender": "WalletIDDummy3",  "TimeStamp": 1525752091,  "Type": "COIN"  },  {  "Amount": 5,  "Recipient": "WalletIDDummy4",  "Sender": "WalletIDQuestionServer",  "TimeStamp": 1525839266,  "Type": "STAKE"  }  ]  } |

**RG3**

In het geval dat er een block wordt gevonden volgt de teruggestuurde data dit formaat:

|  |
| --- |
| {  "Header": {  "BlockNumber": 14,  "Hash": "3fb2e90f76784a3c649a26172ffde2a7df9c3f9c27a98bd050510b9221bb8736",  "PreviousHash": "b031c78cc68076daa6c29276ed630197856001bde2c0b184c6d11d7c672e52ad",  "Reward": 20.51,  "TimeStamp": 1525860691,  "Validator": "WalletIDDummy",  "Version": 1.0  },  "Transactions": [  {  "Amount": 20.51,  "Recipient": "WalletIDDummy",  "TimeStamp": 1525860690,  "Type": "COIN"  },  {  "Amount": 12,  "Recipient": "WalletIDDummy2",  "Sender": "WalletIDDummy3",  "TimeStamp": 1525752091,  "Type": "COIN"  },  {  "Amount": 5,  "Recipient": "WalletIDDummy4",  "Sender": "WalletIDQuestionServer",  "TimeStamp": 1525839266,  "Type": "STAKE"  }  ]  } |

**RG4**

|  |
| --- |
| [{  "Header": {  "BlockNumber": 14,  "Hash": "3fb2e90f76784a3c649a26172ffde2a7df9c3f9c27a98bd050510b9221bb8736",  "PreviousHash": "b031c78cc68076daa6c29276ed630197856001bde2c0b184c6d11d7c672e52ad",  "Reward": 20.51,  "TimeStamp": 1525860691,  "Validator": "WalletIDDummy",  "Version": 1.0  },  "Transactions": [  {  "Amount": 20.51,  "Recipient": "WalletIDDummy",  "TimeStamp": 1525860690,  "Type": "COIN"  },  {  "Amount": 12,  "Recipient": "WalletIDDummy2",  "Sender": "WalletIDDummy3",  "TimeStamp": 1525752091,  "Type": "COIN"  },  {  "Amount": 5,  "Recipient": "WalletIDDummy4",  "Sender": "WalletIDQuestionServer",  "TimeStamp": 1525839266,  "Type": "STAKE"  }  ]  },  {  "Header": {  "BlockNumber": 15,  "Hash": "2eacf8eefe197bdb85255d31317496503fc2503a2a6985a8d4eb5045432e73f0",  "PreviousHash": "3fb2e90f76784a3c649a26172ffde2a7df9c3f9c27a98bd050510b9221bb8736",  "Reward": 20.51,  "TimeStamp": 1525861702,  "Validator": "WalletIDDummy3",  "Version": 1.0  },  "Transactions": [  {  "Amount": 20.51,  "Recipient": "WalletIDDummy3",  "TimeStamp": 1525861701,  "Type": "COIN"  }  ]  }] |

**RG5**

|  |
| --- |
| [{  "Header": {  "BlockNumber": 14,  "Hash": "3fb2e90f76784a3c649a26172ffde2a7df9c3f9c27a98bd050510b9221bb8736",  "PreviousHash": "b031c78cc68076daa6c29276ed630197856001bde2c0b184c6d11d7c672e52ad",  "Reward": 20.51,  "TimeStamp": 1525860691,  "Validator": "WalletIDDummy",  "Version": 1.0  },  "Transactions": [  {  "Amount": 20.51,  "Recipient": "WalletIDDummy",  "TimeStamp": 1525860690,  "Type": "COIN"  },  {  "Amount": 12,  "Recipient": "WalletIDDummy2",  "Sender": "WalletIDDummy3",  "TimeStamp": 1525752091,  "Type": "COIN"  },  {  "Amount": 5,  "Recipient": "WalletIDDummy4",  "Sender": "WalletIDQuestionServer",  "TimeStamp": 1525839266,  "Type": "STAKE"  }  ]  },  {  "Header": {  "BlockNumber": 15,  "Hash": "2eacf8eefe197bdb85255d31317496503fc2503a2a6985a8d4eb5045432e73f0",  "PreviousHash": "3fb2e90f76784a3c649a26172ffde2a7df9c3f9c27a98bd050510b9221bb8736",  "Reward": 20.51,  "TimeStamp": 1525861702,  "Validator": "WalletIDDummy3",  "Version": 1.0  },  "Transactions": [  {  "Amount": 20.51,  "Recipient": "WalletIDDummy3",  "TimeStamp": 1525861701,  "Type": "COIN"  }  ]  }] |

**RG6**

|  |
| --- |
| [  "b20dfab6427b77be650d74b8bc116f30b6ea1c5c1349a95c12e7be60f5a8309a",  "b2986f9db8fd2197e85d787b27def0d76ca1361c94b8629be366a99f962a80f6",  "0ede8ea58fa2824a9aaa65f36eebfaf0d7c7a20f2a3bf989e7ea6bfd816e581d",  "9734b51957fd858d14967bcb1639b5a98be5113fdede468e037a1cb351e5b804"  ] |