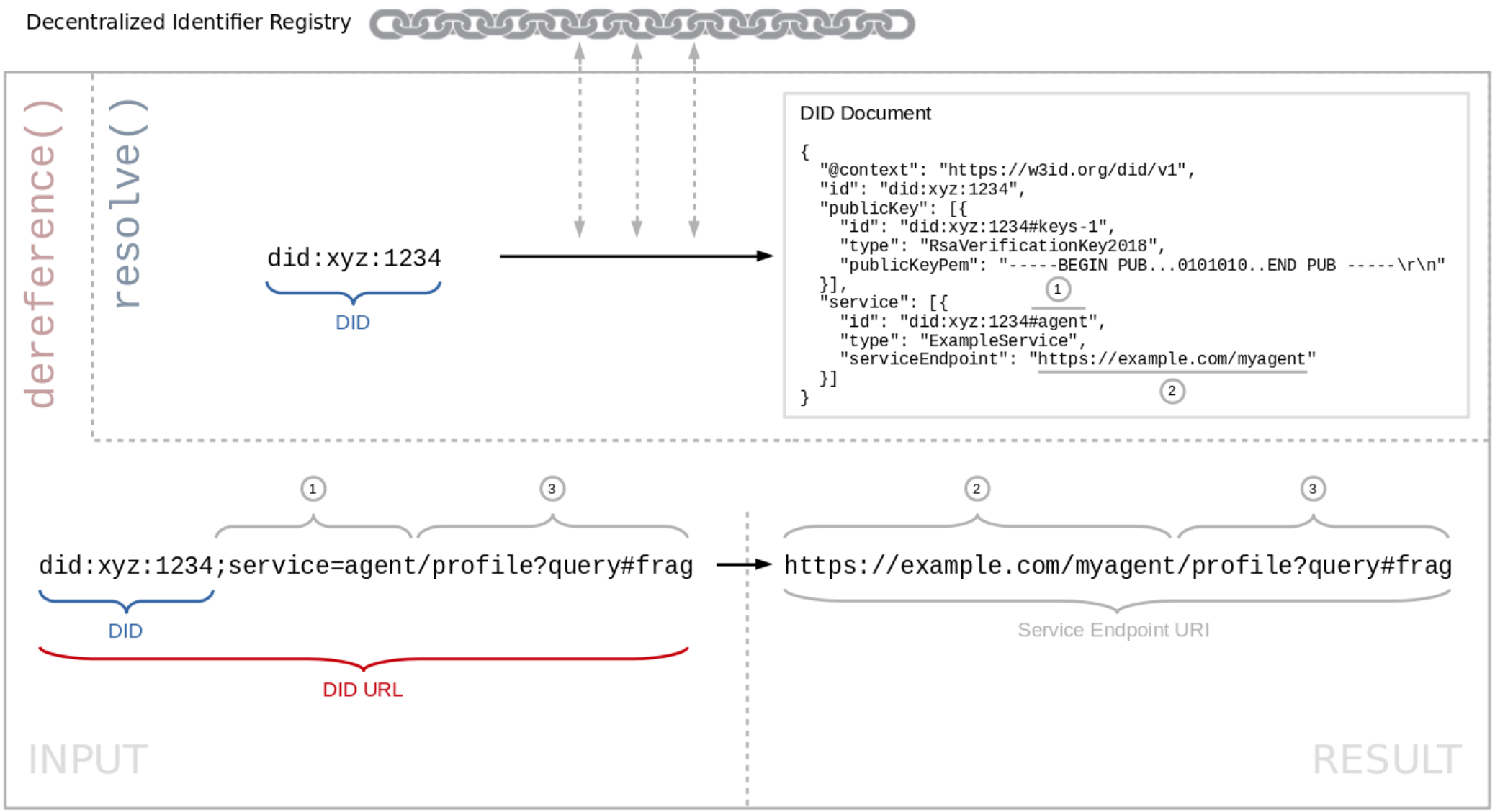
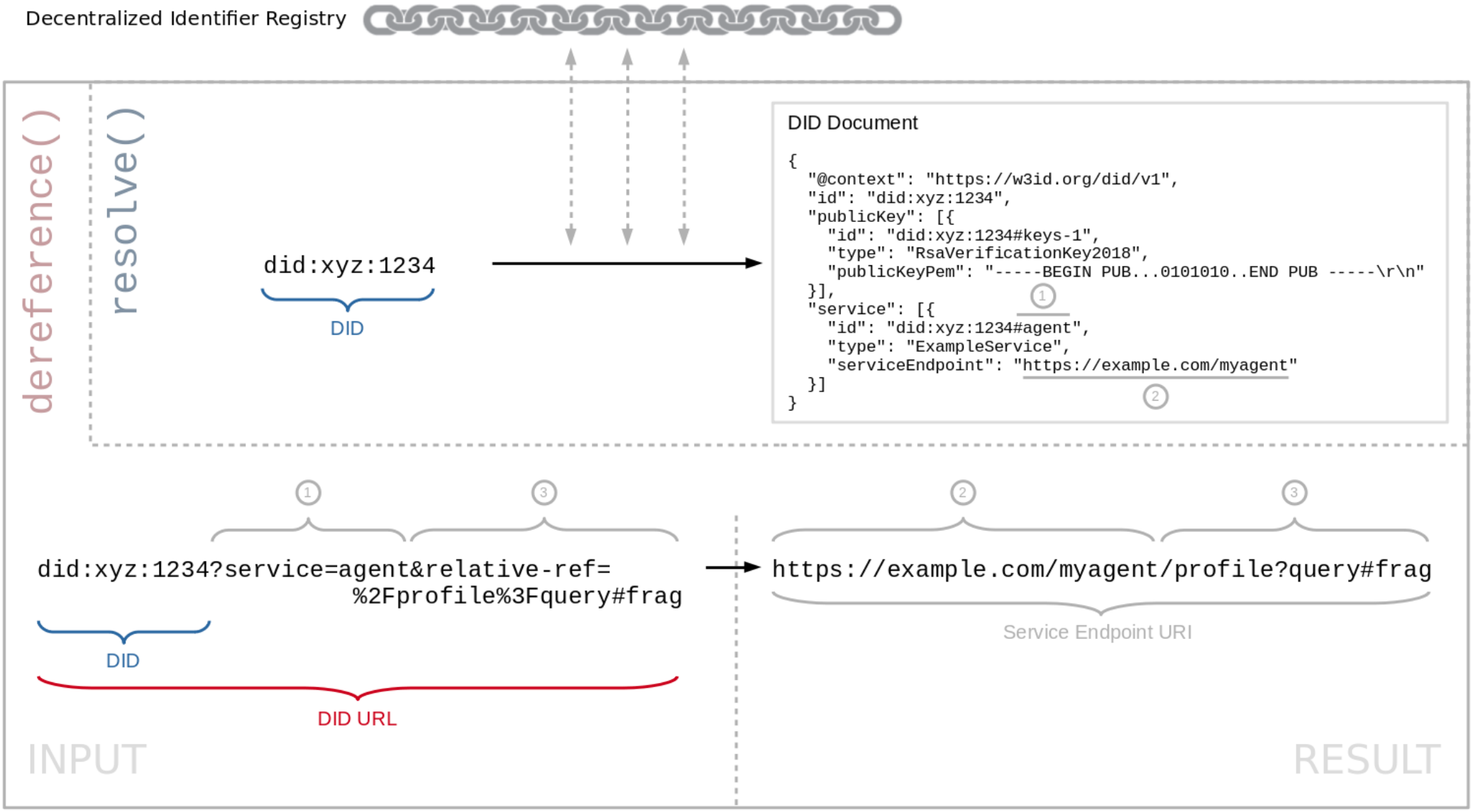

Decentralized Identifier Registry
dereference()
resolve()
did:xyz:1234
DID
DID Document
{
"@context": "https://w3id.org/did/v1",
"id": "did:xyz:1234",
"publicKey": [{
"id": "did:xyz:1234#keys-1",
"type": "RsaVerificationKey2018",
"publicKeyPem": "-----BEGIN PUB...0101010..END PUB -----\r\n"
}],
"service": [{
"id": "did:xyz:1234#agent",
"type": "ExampleService",
"serviceEndpoint": "https://example.com/myagent"
}]
}
1
2
1
3
did:xyz:1234;service=agent/profile?query#frag
DID
DID URL
2
3
https://example.com/myagent/profile?query#frag
Service Endpoint URI
INPUT
RESULT


Decentralized Identifier Registry
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"id": "did:xyz:1234#keys-1",
"type": "RsaVerificationKey2018",
"publicKeyPem": "-----BEGIN PUB...0101010..END PUB -----\r\n"
}],
"service": [{
"id": "did:xyz:1234#agent",
"type": "ExampleService",
"serviceEndpoint": "https://example.com/myagent"
}]
}
1
2
1
3
did:xyz:1234?service=agent&relative-ref=
%2Fprofile%3Fquery#frag
DID
DID URL
2
3
https://example.com/myagent/profile?query#frag
Service Endpoint URI
INPUT
RESULT

Executing the dereference() function ...

did:xyz:1234?service=**messages**&relative-ref=**%2Fsome%2Fpath%3Fquery**#frag


```
{
  "@context": "https://www.w3.org/ns/did/v1",
  "id": "did:example:123456789abcdefghi",
  "publicKey": [{
    "id": "did:example:123456789abcdefghi#keys-1",
    "type": "RsaVerificationKey2018",
    "publicKeyPem": "-----BEGIN PUB...0101010..END PUB -----\r\n"
  }],
  "service": [{
    "id": "did:example:123456789abcdefghi#agent",
    "type": "AgentService",
    "serviceEndpoint": "https://agent.example.com/8377464"
  }, {
    "id": "did:example:123456789abcdefghi#hub",
    "type": "HubService",
    "serviceEndpoint": "https://hub.example.com/.identity/did:example:0123456789abcdef/"
  }, {
    "id": "did:example:123456789abcdefghi#messages",
    "type": "MessagingService",
    "serviceEndpoint": "https://example.com/messages/8377464"
  }]
}
```


https://example.com/messages/8377464**/some/path?query**#frag

(with matrix parameters it would have been like this)

```
did:xyz:1234;service=messages/some/path?query#frag
```

```
{
  "@context": "https://www.w3.org/ns/did/v1",
  "id": "did:example:123456789abcdefghi",
  "publicKey": [{
    "id": "did:example:123456789abcdefghi#keys-1",
    "type": "RsaVerificationKey2018",
    "publicKeyPem": "-----BEGIN PUB...0101010..END PUB -----\r\n"
  }],
  "service": [{
    "id": "did:example:123456789abcdefghi#agent",
    "type": "AgentService",
    "serviceEndpoint": "https://agent.example.com/8377464"
  }, {
    "id": "did:example:123456789abcdefghi#hub",
    "type": "HubService",
    "serviceEndpoint": "https://hub.example.com/.identity/did:example:0123456789abcdef/"
  }, {
    "id": "did:example:123456789abcdefghi#messages",
    "type": "MessagingService",
    "serviceEndpoint": "https://example.com/messages/8377464"
  }]
}
```

```
https://example.com/messages/8377464/some/path?query#frag
```

Executing the dereference() function via HTTP(S) binding...

did:xyz:1234?service=**messages**&relative-ref=**%2Fsome%2Fpath%3Fquery**#frag

GET
https://myresolver.io/
did%3Axyz%3A1234%3Fservice%3D**messages**%26relative-ref%3D**%252Fsome%252Fpath%253Fquery**%23frag**?no-cache=1**

https://example.com/messages/8377464**/some/path?query**#frag