



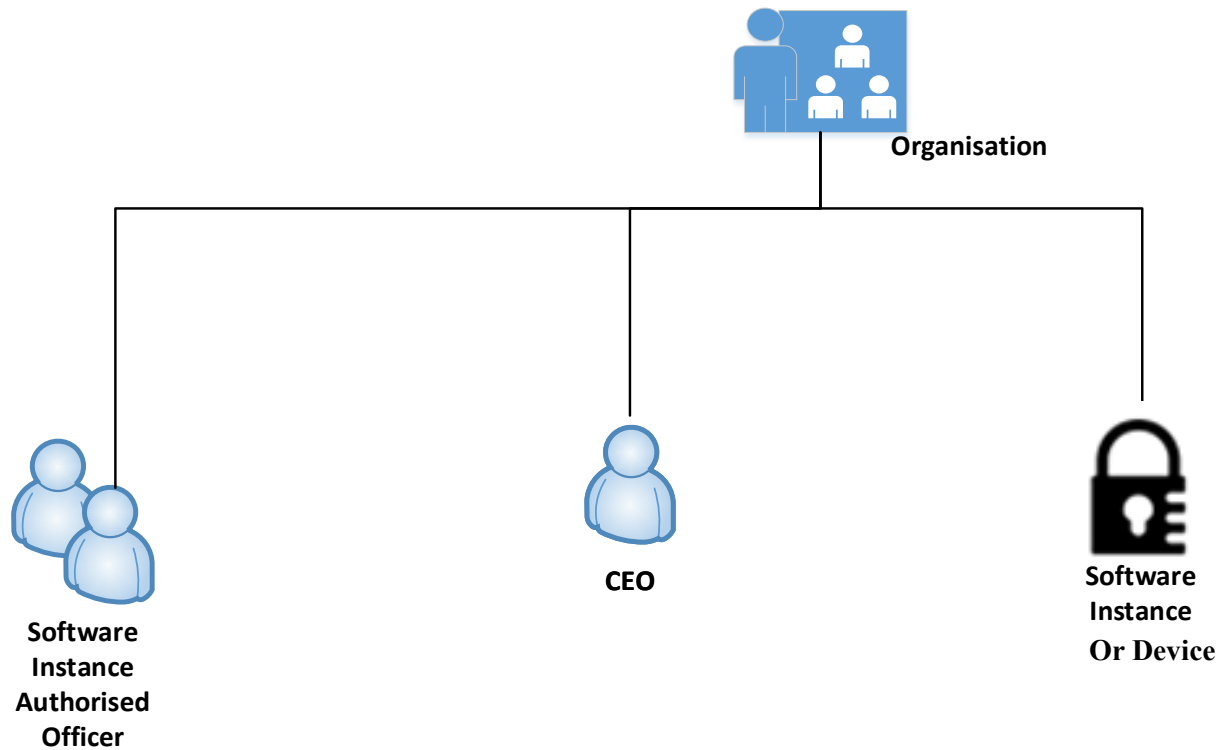
Australian Government

Department of Human Services

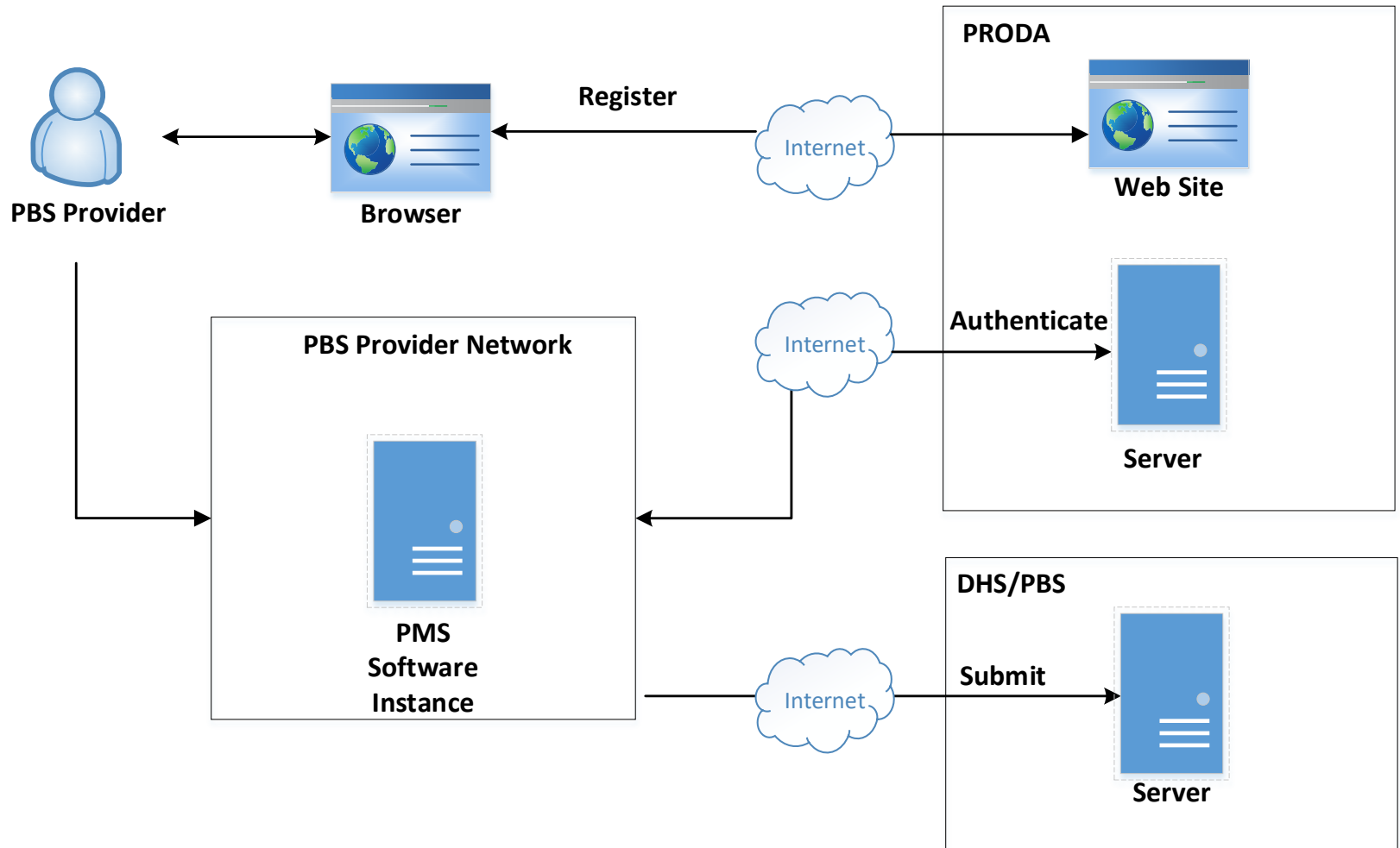
PRODA

Provider Digital Access

B2G Process



B2G Process

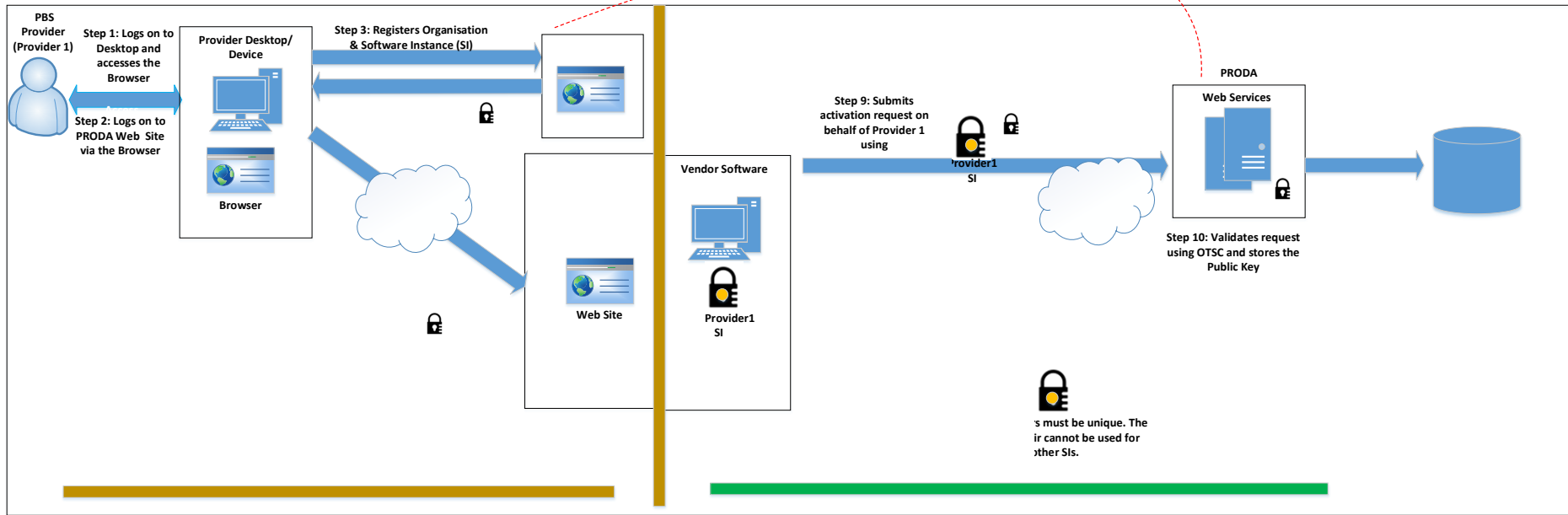


Reference	Source
OAuth 2.0	<p>Hardt, D., "The OAuth 2.0 Authorization Framework,"</p> <p>Jones, M. and D. Hardt, "The OAuth 2.0 Authorization Framework: Bearer Token Usage,"</p>
<u>JWK</u>	<u>Jones, M., "JSON Web Key (JWK)"</u> ,
<u>JWT</u>	<u>Jones, M., Bradley, J., Sakimura, N "JSON Web Token (JWT)"</u> ,
<u>JWS</u>	<u>Jones, M., Bradley, J., and N. Sakimura, "JSON Web Signature (JWS)"</u> , RFC 7515, May 2015
<u>JWA</u>	<u>Jones, M "JSON Web Algorithms (JWA)"</u> , RFC7518, May 2015
RFC7159	<p>https://tools.ietf.org/html/rfc7519</p> <p>Description the content of an access token.</p>
<u>JWT Profile Client Authentication</u>	<u>Jones, M, Campbell, B, Mortimore, C "JSON Web Token (JWT Profile for OAuth 2.0 Client Authentication and Authorization Grants)"</u> , <u>RFC7523</u> , May 2015

B2G Process: Activation

Linking is accomplished by activating the Software. Activating is linking the OTSC or Activate Code and the Public Key to the SI.

Unattended Scenario using on-premise configuration to register the PBS Provider 1's Software Instance (SI)



SAMPLE - ACTIVATE DEVICE REQUEST

PUT <https://vnd.proda.humanservices.gov.au/piaweb/api/b2b/v1/devices/test-device/jwk HTTP/1.1>

Content-Type: application/json

dhs-auditIdType: <http://ns.humanservices.gov.au/audit/type/Provider>

dhs-subjectId: 9646844092

dhs-productId: test-device

dhs-auditId: testAppld

dhs-messageId: urn:uuid:958e7c71-4a40-4f61-aa5d-65648bd0f444

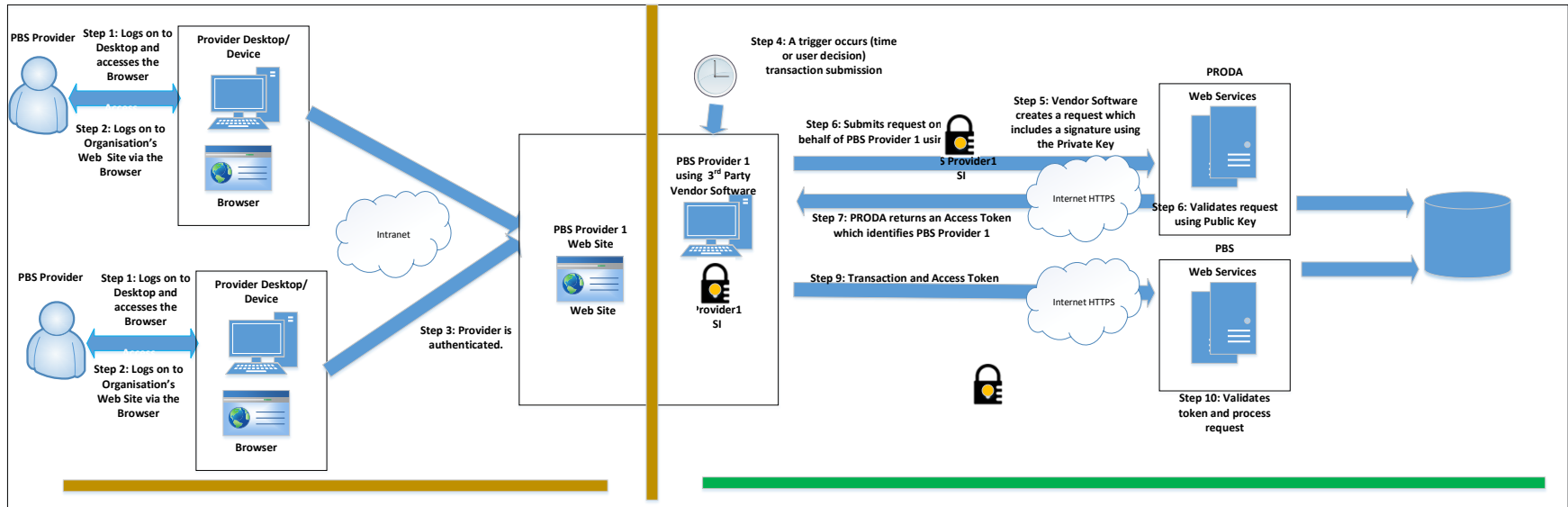
dhs-correlationId: uuid:92f6d9d9-9e3b-4e2a-98d8-a52556476cd5

dhs-subjectIdType: <http://ns.humanservices.gov.au/audit/type/proda>

```
{
  "orgId": "9646844092",
  "otac": "9GY1uuBUVx",
  "key":
{"alg":"RS256","e":"AQAB","n":"kU6feQCLm0r_jzn_JrSVIFyMm6ISQot8s654KZDKv4Y2A4PyNhB6n2KINWpF
-PCfBFPQoBzQvxU62Kkj_-
Cw4Gj5uDTMCGfXhLvk5tplhcF17hvrVku6zKFeJHwafsZPK1RUQhiw37BFhdiH0Kpm3Yu3VgqqNiy_fDUvJLFeh
PXTSOumCzlCHkHYnGa5Sg9e-
c_naps_qKclovJrQf19Dxd7J7VZNVcYfLOqk4Sz3rFdJxNRpN5z2LU802JgeydFaiAH2Zomte9IchmRGA_h-
R66Gxv9NJurQIfPiFig4k6mJglkRI4KAFwurawSC7GyJcnCpvFkZaQHWew7JsFrFQ","kty":"RSA","use":"sig","ki
d":" test-device "}
}
```

B2G Process: Authentication

Unattended Scenario using on-premise configuration to authenticate and submit unattended transaction for PBS Provider 1



Steps 1 through 3 have been provided for context purposes only to illustrate a use case for unattended Web Services. This use case illustrates a web site implementation, however the web site could as easily be replaced with an application. Data is captured, manipulated and transformed appropriately by the 3rd Party Vendor Software.

Steps 4 through 10 illustrate the unattended B2B use case and has been included to show a use case where it is combined with the Vendor Software.

SAMPLE - AUTHORISATION SERVICE REQUEST

POST <https://vnd.proda.humanservices.gov.au/mga/sps/oauth/oauth20/token>
[HTTP/1.1](#)

Accept-Encoding: gzip,deflate

Content-Type: application/x-www-form-urlencoded

Content-Length: 666

Host: vnd.proda.humanservices.gov.au

Connection: Keep-Alive

User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

grant_type=urn%3Aietf%3Aparams%3Aoauth%3Agrant-type%3Ajwt-

bearer&**assertion**=eyJhbGciOiJSUzI1NiIsImtpZCI6InZhcm9uLXQtZGlzcnVwdG9yIn0.eyJleHAiOiE1MzM
yNzg1MTgsInN1Yil6InZhcm9uLXQtZGlzcnVwdG9yIiwiaXVkljoiaHR0cHM6XC9cL3Byb2RhLmh1bWVuc2
VydmljZXMuz292LmF1liwiaXNzljoiOTY0Njg0NDA5MilsImIhdCI6MTUzMzI3ODQ1OH0.U8krEOV3v5qD
DxqKi-

JPYp69NLOjdcBS0DLVVkEF6HqLRTfLpjiR7WMT7Hojfc1OhxMj8SKdfc4HZKndjwPValHZGk8RcaaQpfu
mi9lzQW6MrjEL1LGgRPAiVI4wQ6LrVBbNkLggNXCSmE081gjfejUIFbqq0rLQsg9HFPNHjc9ghc6kfVYklxR
oepKX5hVe9cJq9cIphi20s7m23kjjFFOXaH_wHFH5hzBtP-
ZrpCs2TO1vi6Um1HtV80_gB_tHcCMrjDV57JqWzEsgg95jN_gcWVdFd4gFw3CqKAXBwbGGZGXunamW
6I7djNZZvMZpJjGsU99CDT6O5CvgQyxlg&**client_id**=VendorClient03

SAMPLE - AUTHORISATION SERVICE REQUEST (cont...)

Encoded:

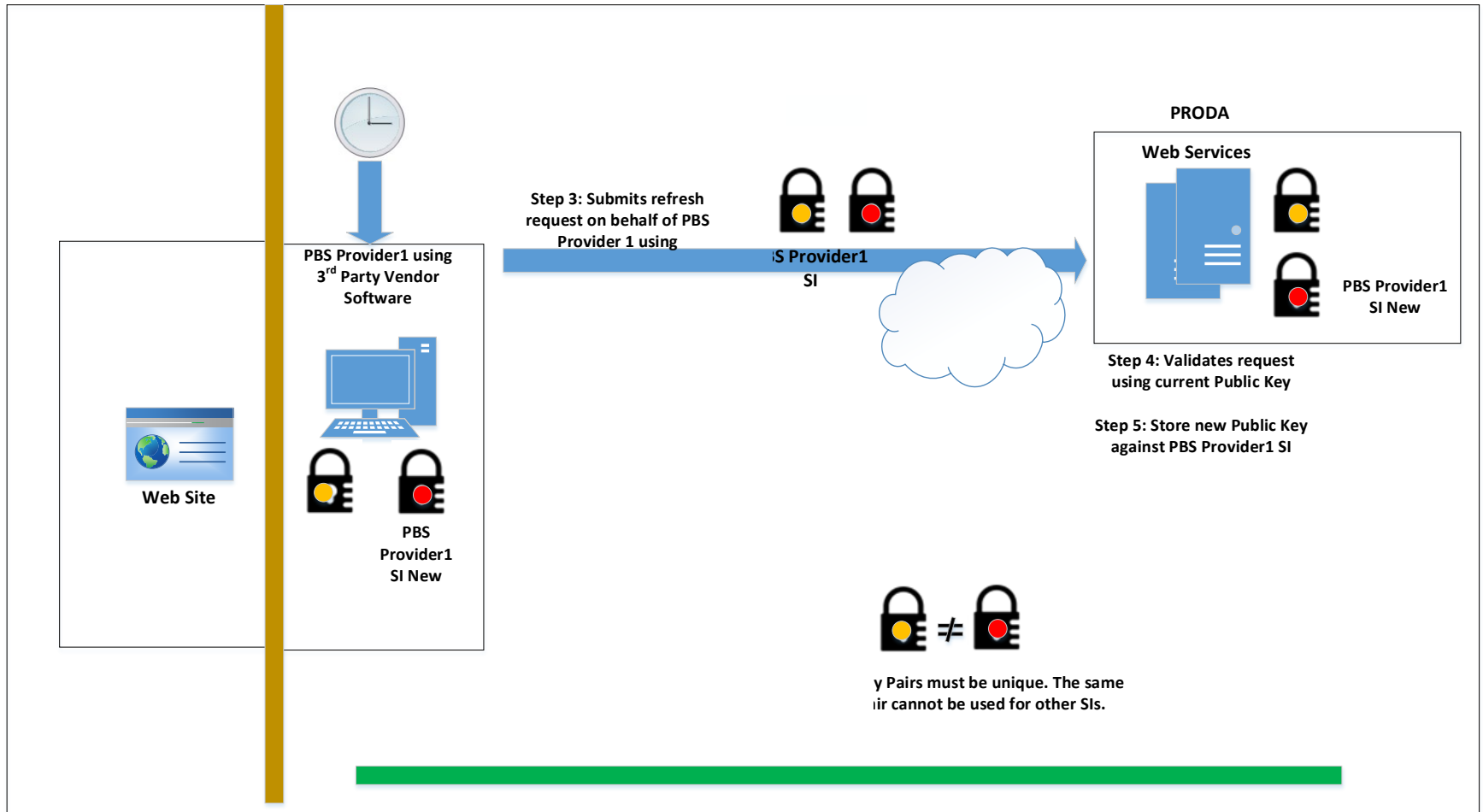
```
eyJhbGciOiJSUzI1NiIsImtpZCI6InZhcm9uLXQtZGlzcnVwdG9yIn0.eyJleHAiOiE1MzMyNzg1MTgsInN1Yil6InZhcm9uLXQtZGlzcnVwdG9yIiwiaXVkljoiaHR0cHM6XC9cL3Byb2RhLmh1bWFuc2VydmljZXMuZ292LmF1IiwiaXNzIjoioTY0Njg0NDA5MilsImIhdCI6MTUzMzI3ODQ1OH0.U8krEOV3v5qDDxqKi-JPYp69NLOjdcBS0DLVVkEF6HqLRTfLpjiR7WMT7Hojfc1OhxMj8SKdfc4HZKndjwPVaIHZGk8RcaaQpfumi9IzQW6MrjEL1LGgRPAiVI4wQ6LrVBbNkLggNXCSmE081gjfejUIFbqq0rLQsg9HFPNHjc9ghc6kfVYklxRoepKX5hVe9cJq9clphi20s7m23kjjFFOXaH_wHFH5hzBtP-ZrpCs2TO1vi6Um1HtV80_gB_tHcCMrjDV57JqWzEsgg95jN_gcWVdFd4gFw3CqKAXBwbGGZGXunamW6I7djNZZvMZpJjGsU99CDT6O5CvgQyxlg
```

Decoded:

```
{
  "alg": "RS256",
  "kid": "test-device "
}
{
  "sub": "test-device ",
  "aud": "https://proda.humanservices.gov.au",
  "iss": "9646844092",
  "iat": 1533278458
  "exp": 1533278518,
}
```

B2G Process: Refresh

Unattended Scenario using on-premise configuration to refresh Key Pair for the PBS Provider 1



Steps 1 through 6 illustrate the unattended B2B use case and has been included to show a use case where it is combined with the Vendor Software.

PUT https://test.5.rsp.humanservices.gov.au/piaweb/api/b2b/v1/orgs/9646844092/devices/vaadwaur-pulsewave/jwk HTTP/1.1

Accept-Encoding: gzip,deflate

Content-Type: application/json

Authorization: Bearer

eyJraWQiOiJWcms3MkhjWjdMYmFUdWFkdTI3NnZPYlI5bE1UTF80TEJ0YjVPeWdqV3BFliwiYWxnljoiUIMyNTYifQ.eyJzdWliOiI5NjQ2ODQ0MDkylwiYXVkljoiUFJPREEuVU5BVFRFTkRFRkRC5CMkliLCJpc3MiOiJodHRwczovL3Byb2RhLmh1bWFuc2VydmljZXMuZ292LmF1IiwiaXhwaWljoxNTE5NzgxOTU4LCJpYXQiOiJlMTk3NzgzNTht9.am6gf8ITLzVv08Xrfc_7orjnMs6NQ9-dkOHqP_vCKd60rw7Q_ps0z_phA4qJNiMkZ-lxnB9-6GLEKISRyUoG5cOafqkMM3MrOAH0Ygtyd4JKSctmHlf0xAcXOVR63BjWFXEymHEfF3yIvFB33Ve6iA1O86dqxBv-i9DImJbedklzXHzGx1XXJrCLb8-xlmHzE8zx4_SDjUusXBeo-3mR2SASTIplGsfCI8m03oCvORiWaCNtsdxjZj5xiFoAUPBmF9M4W4bN2Jm0CSAzJEM-G3oVUqnmgyVMUwgGWC9y44121wMvdAmpXvY-j2hG32YkCR-l-V9KQlbq0SKv3yMtw

dhs-auditIdType: http://ns.humanservices.gov.au/audit/type/provider

dhs-subjectId: test-device

dhs-productId: testAppld

dhs-audit-authPersonId: user001

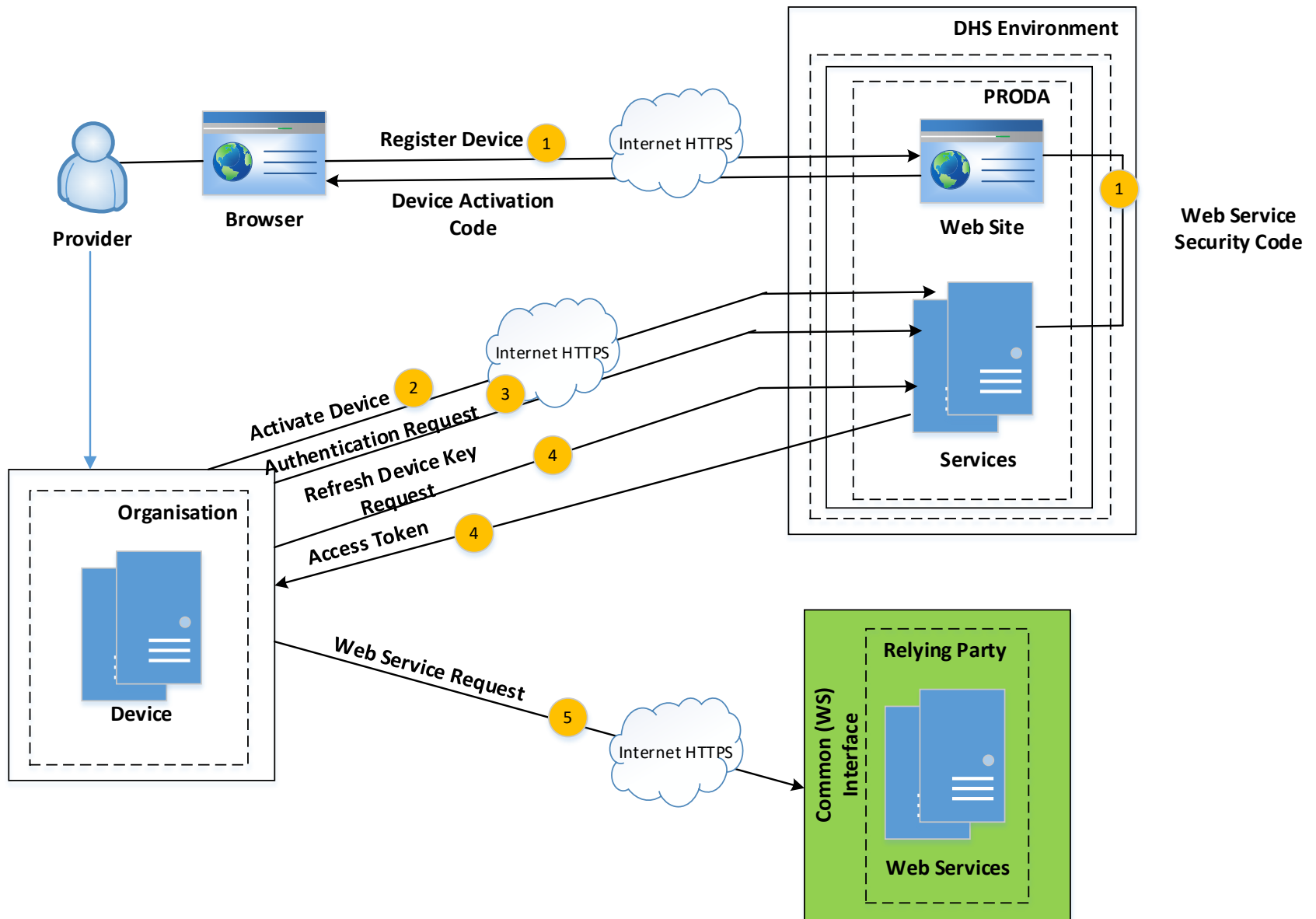
dhs-auditId: 9646844092

dhs-messageId: 644e70a4-62f5-4dae-9834-a5afd0e49426

dhs-correlationId: d3620ecb-5231-4764-b45a-5229387174fc

dhs-subjectIdType: http://ns.humanservices.gov.au/audit/type/provider

```
{"kty":"RSA","e":"AQAB","use":"sig","kid":"test-device","alg":"RS256","n":"hMCx7cdp90980Nf6wz5Ukgn8HVNwh1KHCxFfgW68NBBY802kEKqoH1Yo2PWjAfoXfY__RoMbMk4x5mwTQ7rYZ4GWZiT_xsn1tWBlpypwRYzvw4SvecnPwh55Qxn7HO1FTJdGG1HOoAgpHfFlsxPuqqMWyS-Oyh8uwHwfsAbGHx0nxaCI1gF5111x8JtAXB18TbtPeyYzGULMqtOv7Wfo0HufWeCDHlCuT0oUAZ0Up9HA_BHQsQts6nidBr5Jsa8tFkkO2ECdIZLRZ9rVqJ70mbPw6KW6CDqOXPoTS2ugInpW9JCnDB4xBktll6usK5BzrXUxsFeYop0YAAtkzHT8w"}
```



Question Time

