S1 - New Customer - New RP - New IDP - New myGov

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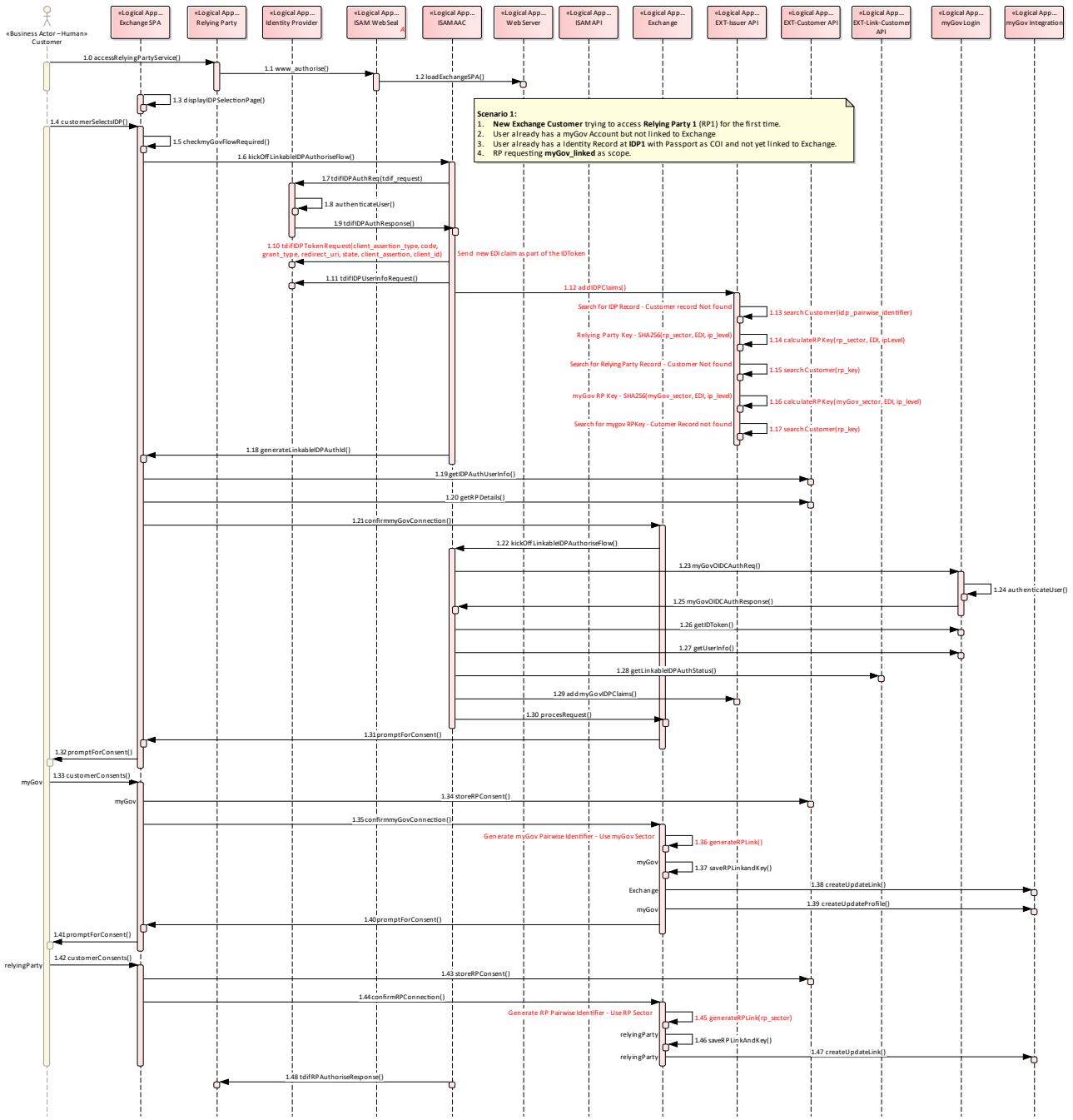

1.0 - accessRelyingPartyService() : (Customer ==> Relying Party)
Description:
Customer Requesting to Access Relying Service.

1.1 - www_authorise() : (Relying Party ==> ISAM WebSeal)
Description: OIDC
Relying party issues an authorize request with the appropriate scope and claims

Request:
https://<<idhub>>/authorise?*response_type*=code&*client_id*=rp&*scope*=openid profile email phone tdif_business_authorisations&*redirect_uri*=<<hostname>>/rp/exchange&*nonce*=<<nonce>>&*state*=<<state>>&*acr_values*=urn:id.gov.au:tdif:acr:ip2:cl2&*claims*={"id_token":{"mygov_linked":{"essential":true}},"userinfo":{"mygov_linked":{"essential":true}}}

Response:
HTTP/1.1 200 OK

1.2 - loadExchangeSPA() : (ISAM WebSeal ==> WebServer)
Description:
Load Exchange SPA page

1.3 - displayIDPSelectionPage() : (Exchange SPA ==> Exchange SPA)
Description: UI action
Display the IDP Selection page to the user

1.4 - customerSelectsIDP() : (Customer ==> Exchange SPA)
Description: User action
Customer selects the preferred IDP from the list

1.5 - checkmyGovFlowRequired() : (Exchange SPA ==> Exchange SPA)
check if {"mygov_linked":{"essential":true}} is present in the Relying Party Authorisation request

1.6 - kickOffLinkableIDPAuthoriseFlow() : (Exchange SPA ==> ISAM AAC)
Description: API
Kickoff the IDP authorize flow

Security:
Bearer-Token: **ISAM_LEVEL1_JWT**

Request:
POST: /sso/sps/oidc/rp/IDENTITYHUB/kickoff/MYGOVIDP?acr_values=<<acr_values>>

Response:
HTTP/1.1 200 OK

BODY:
{"location":"/mga/sps/oauth/oauth20/authorize?scope=openid+email+link
&state=<<state>>
&client_id=rp_exchange_client
&nonce=<<nonce>>
&redirect_uri=/sso/sps/oidc/rp/IDENTITYHUB/redirect/MYGOVIDP
&acr_values=<<acr_values>>
&response_type=code"}

1.7 - tdifIDPAuthReq(tdif_request) : (ISAM AAC ==> Identity Provider)
Description: API
Send TDIF OIDC Authorize request to Selected IDP as a front channel redirect.

Security:
ISAM_LEVEL1_JWT

Request:
GET:
/proto-idp/oauth/authorize?claims=<<claims>>&state=<<state>>&client_id=PROTOIDP&nonce=<<nonce>>&redirect_uri=https://<<idhub>>/sso/sps/oidc/rp/IDENTITYHUB/redirect/PROTOIDP&acr_values=<<acr_values>>&response_type=code

Response:
HTTP/1.1 302 Found

1.8 - authenticateUser() : (Identity Provider ==> Identity Provider)
Description:
Authenticate the IDP User.

1.9 - tdifIDPAuthResponse() : (Identity Provider ==> ISAM AAC)
Description:
TDIF IDP Authorisation response

Security:
ISAM_LEVEL1_JWT

Request:
GET: /sso/sps/oidc/rp/IDENTITYHUB/redirect/PROTOIDP?code=<<code>>&state=<<state>>

Response:
HTTP/1.1 302
Redirect from IDP

1.10 - tdifIDPTokenRequest(client_assertion_type, code, grant_type, redirect_uri, state, client_assertion, client_id) : (ISAM AAC ==> Identity Provider)

Description:
Modify this to receive the new Claim EDI.

Request:
REST API Request URL : <<idhub>>/idp/oauth/token
Request Method : POST
Request params:
{client_assertion_type=<<client-assertion-type>>&code=APb2br&grant_type=authorization_code&redirect_uri=<<redirect_uri>>&state=2ilqGhrrGH&client_assertion=<<client_assertion>>&client_id=IDP}

Response:
{"access_token":"<<access_token>>","token_type":"bearer","expires_in":43199,"scope":"email openid phone tdif_core","id_token":"<<id_token>>"}

1.11 - tdifIDPUserInfoRequest() : (ISAM AAC ==> Identity Provider)

Description: API
Retrieve IDP User information

Request:

Security:
Header: Bearer Token

Response:
HTTP/1.1 200 OK

1.12 - addIDPClaims() : (ISAM AAC ==> EXT-Issuer API)

Description: API
Store the new IDP (EDI) claims in the database

Security:
Header: ex-ext-iss-api-key: <<**ISAM_EXCHANGE_JWT**>>

Request:
PUT: <<exchange>>/api-ext-issuer/v1/identityproviders/<<idp_client_id>>/authclaims

BODY:

```
{"claims":{"sub":"<<sub>>",
 "aud":"PROTOIDP",
 "acr":"urn:id.gov.au:tdif:acr:ip2:cl2",
 "auth_time":1564557530,
 "kid":"1",
 "iss":"https://<<idhub>>/proto-idp",
 "exp":<<exp>>,
 "iat":<<iat>>,
 "nonce":"<<nonce>>",
 "jti":"<<jti>>",
 "phone_number":"000",
 "family_name":"Mayweather",
 "email_verified":true,
 "phone_number_verified":true,
 "updateAt":1564557531302,
 "email":"test@email.com",
 "given_name":"Mike",
 "birthdate":"<<birthdate>>"}}
```


Response:
HTTP/1.1 200 OK

1.13 - searchCustomer : (EXT-Issuer API ==> EXT-Issuer API)

1.14 - calculateRPKey : (EXT-Issuer API ==> EXT-Issuer API)

1.15 - searchCustomer : (EXT-Issuer API ==> EXT-Issuer API)

1.16 - calculateRPKey : (EXT-Issuer API ==> EXT-Issuer API)

1.17 - searchCustomer : (EXT-Issuer API ==> EXT-Issuer API)

1.18 - generateLinkableIDPAuthId() : (ISAM AAC ==> Exchange SPA)

Generate **IDP_AUTH_ID** for the linkable flow

1.19 - getIDPAuthUserInfo() : (Exchange SPA ==> EXT-Customer API)

Description: API
Retrieve IDP Auth User Information

Security:
Bearer-Token: **ISAM_LEVEL3_JWT**

Request:
GET: <<idhub>>/api-ext-customer-ui/v1/idpauthentications/<<idp_auth_id>>/<<rp_auth_id>>/userinfo

Response:
HTTP/1.1 200 OK
BODY:
{"idpAuthId":"<<idp_auth_id>>","sessionId":"<<session_id>>","claims":[{"claims"}]}

1.20 - getRPDetails() : (Exchange SPA ==> EXT-Customer API)
Description: API
Retrieve details for a given relying party

Security:
Bearer-Token: **ISAM_LEVEL3_JWT**

Request:
GET: <<idhub>>/api-ext-customer-ui/v1/relyingparty/7

Response:
HTTP/1.1 200 OK

BODY:
{"id":"rp_biz_client",
 "name":"DSS GRS",
 "description":"Dept Social Services Grants Registration System",
 "properties":{"displayName":"Grants Registration Portal",
 "serviceName":"Grants Registration Portal"}}

1.21 - confirmmyGovConnection : (Exchange SPA ==> Exchange)

1.22 - kickOffLinkableIDPAuthoriseFlow() : (Exchange ==> ISAM AAC)

1.23 - myGovOIDCAuthReq() : (ISAM AAC ==> myGov Login)
Description: OIDC
Create OIDC Auth request for myGov Linkable flow
/sso/sps/oidc/rp/IDENTITYHUB/redirect/MYGOVIDP?state=<<state>>&code=<<code>>

1.24 - authenticateUser() : (myGov Login ==> myGov Login)

1.25 - myGovOIDCAuthResponse() : (myGov Login ==> ISAM AAC)
Description: OIDC response
Send the Auth response to ISAM AAC for myGov Linkable flow

Request:
/sso/sps/oidc/rp/IDENTITYHUB/redirect/MYGOVIDP?state=<<state>>&code=<<code>>

Response:
HTTP/1.1 302
Redirect from IDP

1.26 - getIDToken() : (ISAM AAC ==> myGov Login)
Description: API
Obtain the Identity Token from myGov

Security:
Bearer-Token: **EXCHANGE_MYGOV_JWT**

Request:
POST: <<mygov>>/core/connect/token
BODY:
{"code":"<<**mygov_auth_code**>>"}

Response:
200

BODY:
{ "access_token": "<<access_token>>",
 "refresh_token": "<<refresh_token>>",
 "scope": "openid link email",
 "id_token": "<<id_token>>",
 "token_type": "bearer",
 "expires_in": 3599
}

1.27 - getUserInfo() : (ISAM AAC ==> myGov Login)
Description: API
Obtain the User's info from myGov

Security:

Bearer-Token: **EXCHANGE_MYGOV_JWT**

Request:
GET: https://<<mygov>>/mga/sps/oauth/oauth20/userinfo

Response:
200

BODY:
{"claims":
{"rt_hash":"<<rt_hash>>,
"nonce":"<<nonce>>",
"email":"idp08@mail.com",
"iat":1564721270,
"iss":"https://auth.my.gov.au",
"sub":"<<mbun>>",
"at_hash":"<<at_hash>>",
"status":"permanent",
"gsk":"<<gsk>>",
"exp":1564724870,
"acr":"2",
"aud":"rp_exchange_client"}}

1.28 - getLinkableIDPAuthStatus() : (ISAM AAC ==> EXT-Link-Customer API)
Description: API
Retrieve the IDP Auth status for myGov linkable flow

Security:
Bearer-Token: **ISAM_LEVEL1_JWT**

Request:
GET:
<<idhub>>/api-ext-link-customer-ui/v1/integration/rp/<<rp_auth_id>>/progress?idpAuthId=<<idp_auth_id>>&linkIdpId=7

Response:
HTTP/1.1 200 OK
BODY:
{"idpStatus":[{"id":1,
 "type":"STANDARD",
 "status":"AUTHENTICATED",
 "authenticated":true},
 {"id":7,
 "type":"LINKABLE",
 "status":"LINKED",
 "linked":true}],
 "claimStatus":[{"claim":"email",
 "matched":true}]
}

1.29 - addmyGovIDPClaims() : (ISAM AAC ==> EXT-Issuer API)
Description: API
Store myGov IDP claims

Security:
Header: ex-ext-iss-api-key: <<**ISAM_EXCHANGE_JWT**>>

Request:
POST: <<exchange>>/api-ext-issuer/v1/identityproviders/<<idp_client_id>>/authclaims

BODY:
{"claims":{"claims"}}

Response:
Exit with code 200

1.30 - procesRequest : (ISAM AAC ==> Exchange)

1.31 - promptForConsent : (Exchange ==> Exchange SPA)
Redirect to SPA to display the consent page to share details with myGov

1.32 - promptForConsent : (Exchange SPA ==> Customer)
Redirect to SPA to display the consent page to share details with myGov

1.33 - customerConsents() : (Customer ==> Exchange SPA)
Description: User Action
Customer provides consent to share details with myGov

1.34 - storeRPConsent() : (Exchange SPA ==> EXT-Customer API)
Description: API
Store Relying Party Consent

Security:
Bearer-Token: **ISAM_LEVEL3_JWT**

Request:
PUT: <<idhub>>/api-ext-customer-ui/v1/rpauthentications/<<rp_auth_id>>/consent

BODY:
```
{"id":"<<rp_auth_id>>",
 "claimConsents":[],
 "abn":"<<abn>>",
 "triggerScope":<<triggerScope>>}
```

Response:
HTTP/1.1 201 Created

1.35 - confirmmyGovConnection : (Exchange SPA ==> Exchange)
Description: Internal API

Verify and confirm if a link exists between myGov and Exchange for the given user

1.36 - generateRPLink() : (Exchange ==> Exchange)
Generate new RP Pairwise Identifier using the relevant sector

1.37 - saveRPLinkandKey() : (Exchange ==> Exchange)
Save the generated RP Pairwise ID and key for myGov

1.38 - createUpdateLink(rpLinkID) : (Exchange ==> myGov Integration)
Description: API
Create a new myGov Relying Party Account Link / MBUN in the myGov system for a given relying party. The user account will be specified by the use of the "sub", "squ" and "sty" claims of the mgv-jwt JWT header

Security:
Bearer-Token: **EXCHANGE_MYGOV_JWT**

Request:
POST (Create): /accounts/links/

BODY: RelyingPartyLink object
```
{
 "relyingPartyId": "ATO|EXCHGE|...",
 "relyingPartyName": "Australian Taxation Office,
 "relyingPartyLinkDetails": {
   "id": "<<id>>",
   "status": "permanent|transient",
   "created": "<<created>>",
   "lastModified": "<<lastModified>>"
 }
}
```

Response:
HTTP/1.1 201 Relying party link successfully created

1.39 - createUpdateProfile() : (Exchange ==> myGov Integration)
Description: API
Create or Update User's myGov profile in myGov

Security:
Bearer-Token: **EXCHANGE_MYGOV_JWT**

Request:
POST (Create): /accounts/profile
PUT (Update): /accounts/profile

BODY: myGov Profile
```
{ "name": {
   "firstName": "string",
   "middleName": "string",
   "lastName": "string"
 },
 "dateOfBirth": "2019-11-05"
}
```

Response:
HTTP/1.1 204 Successfully Created or Updated

1.40 - promptForConsent() : (Exchange ==> Exchange SPA)
Redirect to SPA to display the consent page to share details with the relying party

1.41 - promptForConsent : (Exchange SPA ==> Customer)
Redirect to SPA to display the consent page to share details with the relying party

1.42 - customerConsents() : (Customer ==> Exchange SPA)
Description: User Action
Customer provides consent to share details with the relying party

1.43 - storeRPConsent() : (Exchange SPA ==> EXT-Customer API)

Description: API
Store Relying Party Consent

Security:
Bearer-Token: **ISAM_LEVEL3_JWT**

Request:
PUT: <<idhub>>/api-ext-customer-ui/v1/rpauthentications/<<rp_auth_id>>/consent

BODY:
```
{"id":"<<rp_auth_id>>",
 "claimConsents":[],
 "abn":"<<abn>>",
 "triggerScope":<<triggerScope>>}
```

Response:
HTTP/1.1 201 Created

1.44 - confirmRPConnection : (Exchange SPA ==> Exchange)

Description: Internal API

Verify and confirm if a link exists between the Relying Party and Exchange for the given user

1.45 - generateRPLink : (Exchange ==> Exchange)

Generate new RP Pairwise Identifier using the relevant sector

1.46 - saveRPLinkAndKey : (Exchange ==> Exchange)

Save the generated RP pairwise identifier

1.47 - createUpdateLink(rpLinkID) : (Exchange ==> myGov Integration)

Description: API
Create a new myGov Relying Party Account Link / MBUN in the myGov system for a given relying party. The user account will be specified by the use of the "sub", "squ" and "sty" claims of the mgv-jwt JWT header

Security:
Bearer-Token: **EXCHANGE_MYGOV_JWT**

Request:
POST (Create): /accounts/links/

BODY: RelyingPartyLink object
```
{
 "relyingPartyId": "ATO|EXCHGE|...",
 "relyingPartyName": "Australian Taxation Office,
 "relyingPartyLinkDetails": {
   "id": "<<id>>",
   "status": "permanent|transient",
   "created": "<<created>>",
   "lastModified": "<<lastModified>>"
 }
}
```

Response:
HTTP/1.1 201 Relying party link successfully created

1.48 - tdifRPAuthoriseResponse() : (ISAM AAC ==> Relying Party)

Send an authorized response back to the Relying Party along with the RP claims