



Table of Contents

Contents

1. Introduction:	2
2. AVE Scheme	2
3. Providers & Accreditation Scheme	2
4. Integration APIs	2
4.1 7G	3
4.2 Process Flow for 7G	3
4.3 Technical flow for 7G	4
4.4 9G	5
4.5 7O	5
4.6 Process flow for 7O below:	6
4.7 Technical Flow for 7O	6
4.8 7P	7
4.9 Process flow for 7P	8
4.10 Technical Flow for 7P	8
4.11 7S	9
4.12 Process Flow for 7S	10
4.13 Technical Flow for 7S	10
5. Conclusion	11

1. Introduction:

This technical brief document is to provide an understanding of the Scottish Government interfaces and corresponding triggers that any provider seeking to join the AVE scheme must make sure their solution is compatible with.

2. AVE Scheme

The AVE scheme provides disabled people with access to affordable vehicles and equipment. Clients can use the higher rate mobility component of their Child Disability Payment or Adult Disability Payment to lease any of the following:

- cars
- scooters
- powered wheelchairs
- specially adapted vehicles.

The AVE scheme is designed to provide clients with adapted vehicles and specialist equipment at significantly lower cost exclusive of VAT to clients in receipt of higher rate mobility.

This would be a lease contract between the client and the AVE provider. The client would elect for SSS to pay their higher rate mobility component to the AVE Provider in full or a proportion thereof, with the balance of their disability assistance being paid to the client.

3. Providers & Accreditation Scheme

An authorised provider is a supplier that leases accessible vehicles or powered wheelchairs as accredited by the Scottish Government.

In order to provide clients with more choice of dealers to choose from, the Scottish Government has developed and designed an accreditation scheme to allow providers to be accredited for 4 years.

4. Integration APIs

The Scottish Government is committed to ensure that client details are stored, transmitted or shared with 3rd party partners both:

- using the most secure methods available
- in compliance with government regulations and GDPR.

The Scottish Government expects the same level of security and technical compliance for providers looking to join the AVE Scheme. The provider's system will perform a handshake with the Scottish Government integration API platform and dedicated storage system for data collaboration (Objective Connect).

4.1 7G

When a client is awarded high rate mobility, they would take their certificate of entitlement to a dealer to choose a car. The dealer would need to confirm the client's eligibility and this is where 7G comes in.

The AVE provider would initiate the eligibility check using this interface and API call from their solution to the Scottish Government.

The integration will be enabled by exposing a new service on the Integration Platform (IP). The IP service will then call SPM services before returning the required data. The following changes will be implemented:

- Create a new IP AVE Eligibility Check service
- Create new SPM services to return client, appointee and awards details

4.2 Process Flow for 7G

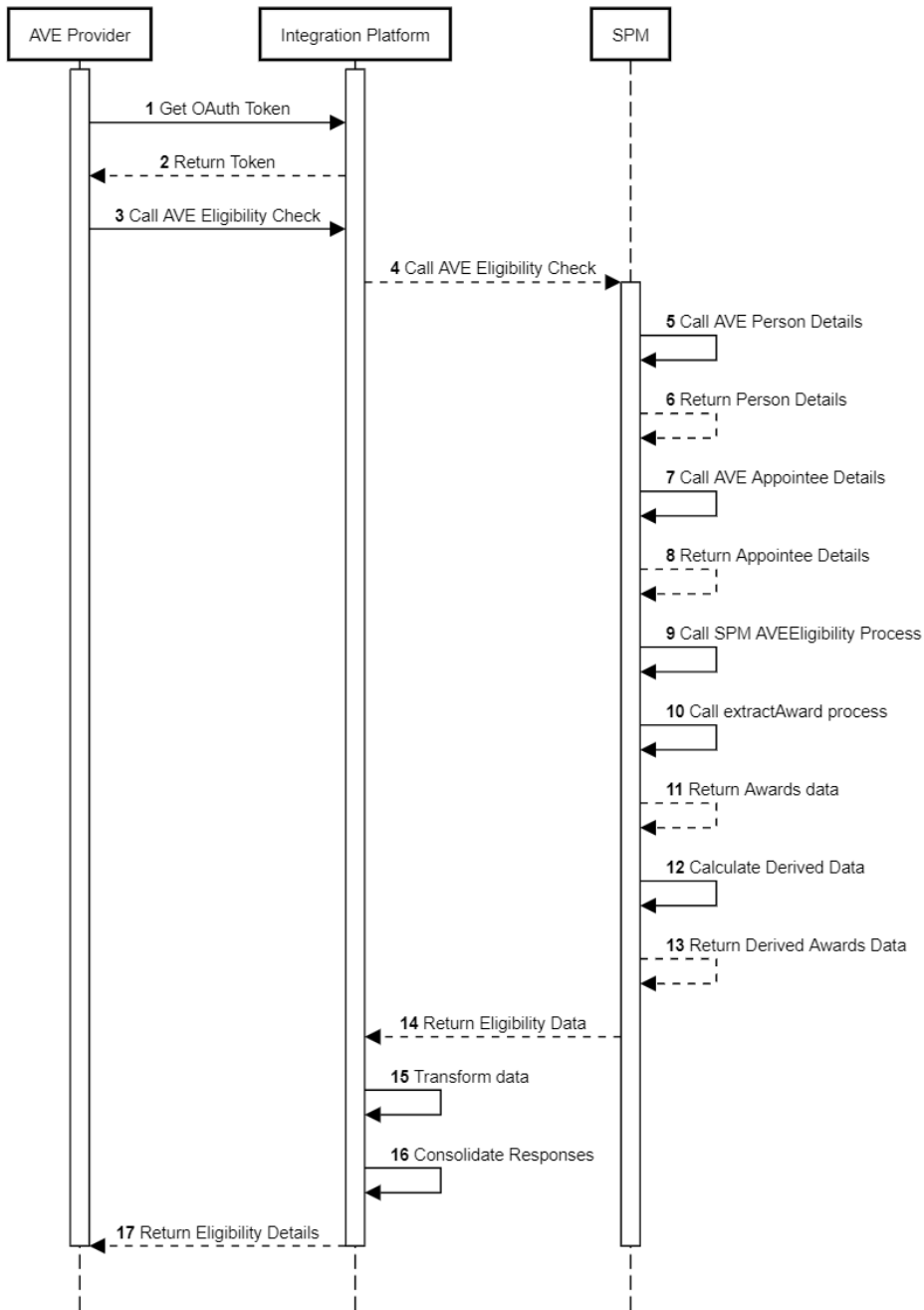
Step	Description	Action
1	Get OAuth Token	AVE Provider requests the authentication token
2	Return Token	IP returns the authentication token
3	Call AVE Eligibility Check	AVE Provider initiates AVE Eligibility check - NINO and unique ID passed in with request
4	Call AVE Eligibility Check	IP calls SPM AVE service to return required data
5	Call AVE Person Details for Client	SPM service called to return client details
6	Return Person Details	SPM Response - Person details returned
7	Call AVE Appointee Details	SPM service called to return appointee details for client
8	Return Appointee Details	SPM Response - Appointee details returned
9	Call SPM AVE Eligibility process	SPM service called to get the claim and award information for the AVE eligibility check
10	Call extract Award process	SPM calls extract Award common process, NINO, CDP (as Benefit type), start date (set to current date) and end data (set to open ended) passed in

11	Return Awards data	Extract Award response - Data returned in form of Award timeslices
12	Calculate Derived Data	SPM process to interrogate time slices to establish AVE eligibility
13	Return Derived Awards Data	SPM returns relevant awards and claim data to include in IP response
14	Transform data	IP transforms personal data and award/claim data into required format
15	Consolidate responses	IP consolidates data into single response
16	Return Eligibility Details	IP returns data to AVE Provider

Once the agreement has been signed by the client there is a requirement for AVE providers to send the agreement details to Social Security Scotland. The required data will be sent to SSS by Secure Shell File Transfer Protocol (SFTP) once a day.

4.3 Technical flow for 7G

AVE Eligibility Check



4.4 9G

When the client's agreement goes live, depending on the agreement, payments would need to be made securely. These would be made either entirely to the provider (Variable agreement) or split between the AVE provider and client (Fixed agreement). 9G is the API interface used for payment to be made to the provider.

4.5 70

This uses SFTP to deliver new client agreements and payment details from the AVE provider into the client record in SPM. This allows the client's mobility component, or a proportion thereof to be paid to the accredited provider. A new batch process will run every night which will ingest into SPM a file containing new agreement details.

The main points of the new batch process are summarised as follows:

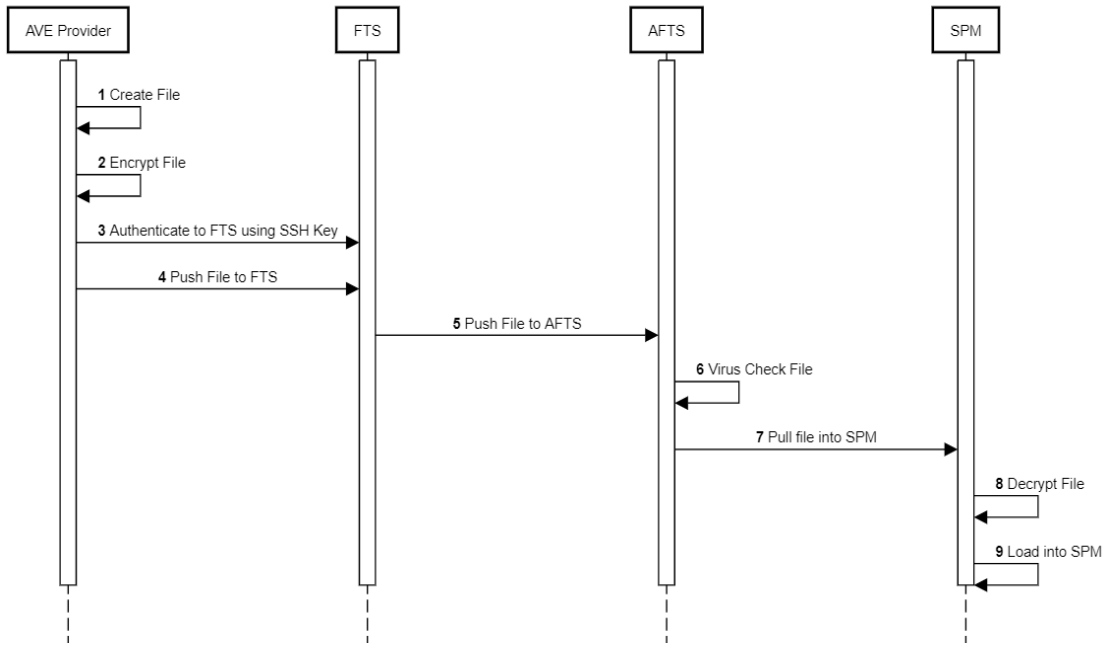
- Details of new agreements will be extracted by the AVE Provider and transferred to Social Security Scotland using SFTP
- Files would be transferred using SFTP
- Once the file has been received the SPM Batch will load the file and create the required Evidence against the Product Delivery Case (PDC) for the client

4.6 Process flow for 7O below:

	Description
1	AVE Provider creates a daily CSV file of new agreement details
2	AVE encrypts the file using the SG OpenPGP Public Key
3	AVE Provider authenticates to FTS (SG SFTP Server) using SSH Key
4	AVE Provider pushes the file to FTS over the encrypted connection
5	Once the file is received by FTS it's pushed to AFTS over an encrypted connection (x509 certificates)
6	The file is checked for viruses using ClamAV and pushed to the inbound SPM S3 bucket
7	SPM batch pulls the file from the inbound SPM S3 bucket
8	The file is decrypted using the SG OpenPGP Private Key
9	SPM batch loads each record into SPM

4.7 Technical Flow for 7O

AVE Agreement Details



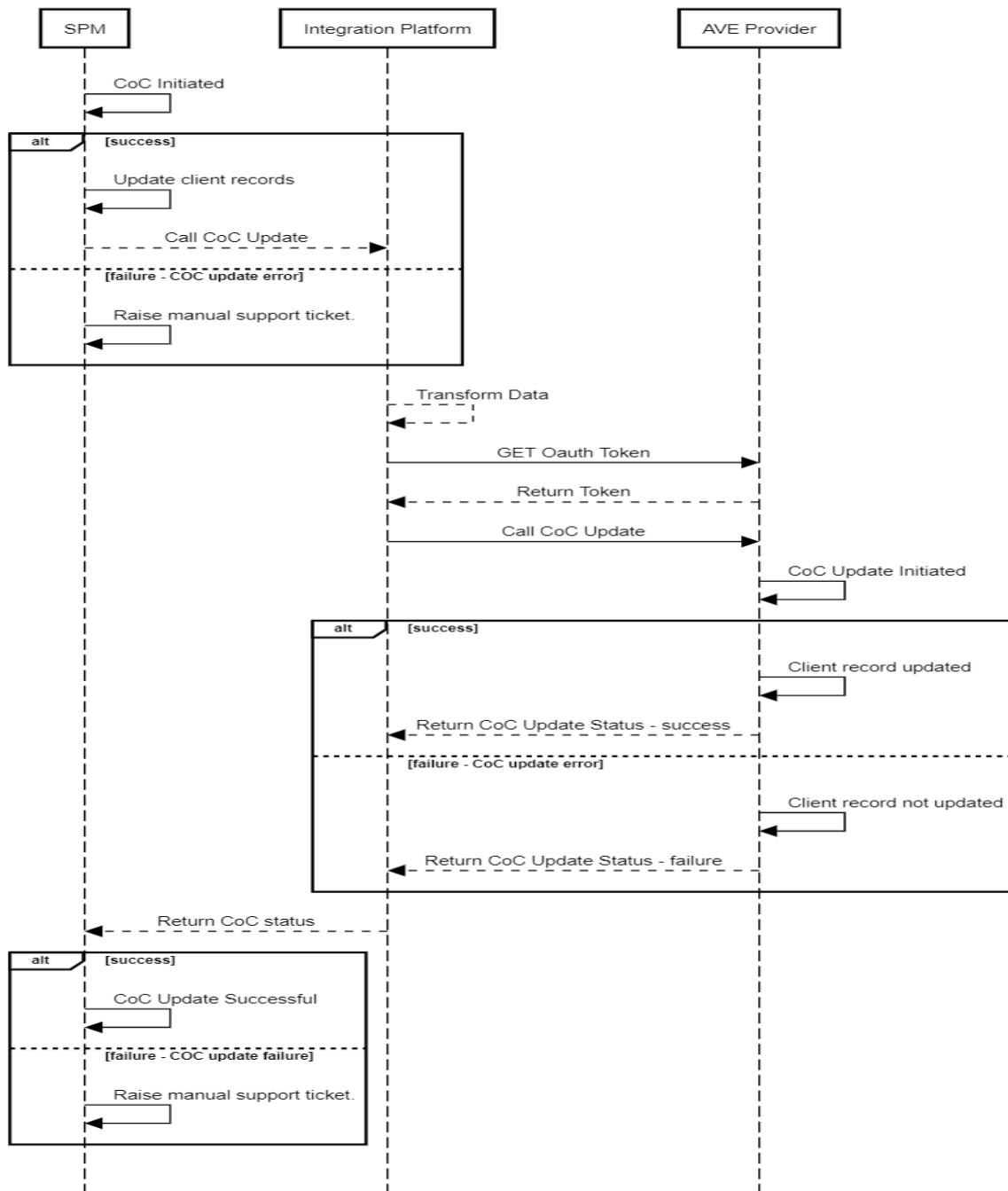
When there is a change in a client's circumstances that affects the client's entitlement to lease a vehicle or there is a change in the address, name or appointee the API exposes the CoC Update service to SPM. This facilitates the automated transfer of client data to the AVE provider. The IP will expose a single API end-point for all types of CoC update from SPM. The different types of CoC requests and request message are defined and available.

4.9 Process flow for 7P

Step	Description	Action
1	CoC Initiated	If the CoC commit is successful, the API on the IP is consumed to initiate the outbound process. If the CoC cannot be committed to SPM a manual support ticket is required and the CoC update will require to be re-attempted after resolution.
2	Call CoC Update	SPM consumes the API exposed by the IP with the client data.
3	Transform Data	The IP transforms the client data in the request from SPM to the format required by the API exposed by the AVE provider.
4	Get OAUTH Token	IP retrieves OAUTH token with expiry time set by AVE provider.
5	Call CoC Update	IP consumes the API securely exposed by the AVE provider and contains the request data in JSON format.
6	CoC Update Initiated	AVE provider software system initiates automated update of client CoC data.
7	Client Record Updated	Success - The client record is successfully updated on the AVE provider software system. A success response message (HTTP 200) is returned to the IP.
8	Client Record Not Updated	Failure – The client record was not updated on the AVE provider software system. A failure response message (HTTP 4xx) with description is returned to the IP.
9	Return CoC Status	IP returns the status message description and code received from the AVE provider. Success – process ends. Failure – support ticket raised for investigation.

4.10 Technical Flow for 7P

Change of Circumstances



This is the API used when a client ends their agreement with the AVE provider. Interface 7S would be triggered to inform the Scottish Government that the client is no longer in the scheme and would no longer be expecting money for that particular client.

The main points can be summarised as follows:

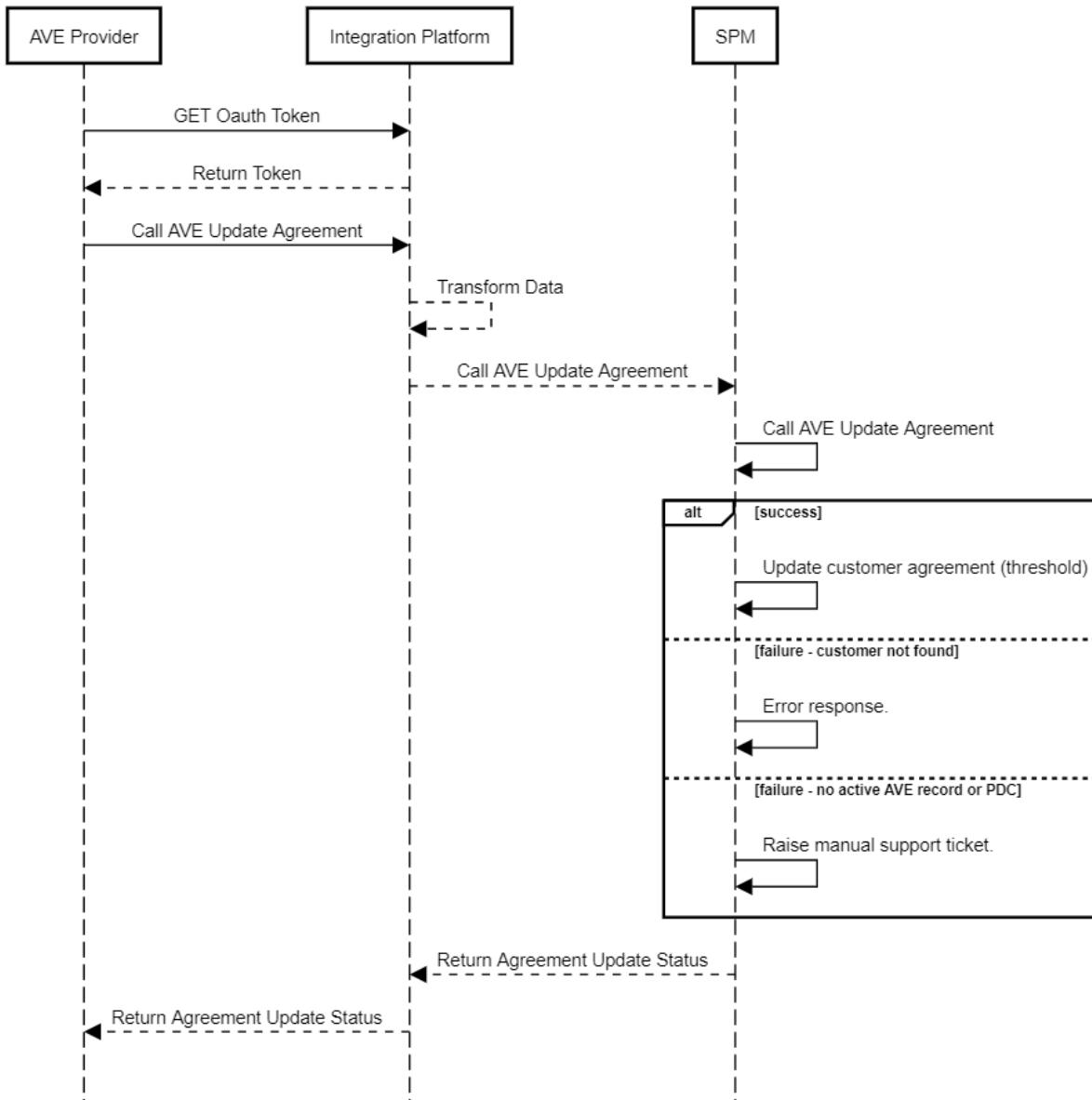
- Details of agreement updates will be extracted by the AVE Provider and transferred to the agency using an API
- The existing Agency Integration Platform will be used to securely expose an API for the AVE supplier to consume when required
- The Integration Platform will perform security, data validation, data transformation and then consume an internally exposed API on SPM
- Once the data has been received SPM will add the required Evidence against the Product Delivery Case (PDC) for the client
- Tasks will be created within SPM and added to a work queue for Agency users to process

4.12 Process Flow for 7S

Step	Description	Action
1	Get OAuth Token	AVE Provider requests the authentication token
2	Return Token	IP returns the authentication token
3	Call AVE Update Agreement	AVE Provider initiates AVE Agreement Update – Data defined in section 5.1 is contained in the request
4	Transform Data	Transform the request message to the correct format required by the SPM API
5	Call AVE Update Agreement	IP calls SPM AVE service to update the agreement details in the client record
6	Call AVE Update Agreement	SPM calls internal service to update client agreement details
7	Return Agreement Update Status	SPM Response – SPM responds to the IP API call with confirmation the client's agreement update has been successful or there is an error scenario as defined in section 5.2
8	Return Agreement Update Confirmation	IP Response – IP responds to the AVE API call with confirmation the client's agreement update has been successful or an error has occurred. See section 5.2

4.13 Technical Flow for 7S

AVE Agreement Updates



5. Conclusion

In order for an AVE provider to be qualified to join the AVE scheme, they must meet Scottish Government minimum technical and security requirements, for storing, transmitting and sharing of client data.

This would require that the solution is compactable with API's mentioned above (7G, 9G, 7O, 7P & 7S), in addition to the general technical specifications listed in the technical specifications for AVE accreditation scheme document.