What is needed to get started with VRS testing from each stakeholder perspective?

From Manufacturer perspective

1. Understand that manufacturers need to obtain 2 credential types: Identity and ATP
2. Understand that manufacturers need to maintain their digital verifiable credentials for Identity and ATP in a digital wallet.
3. Initiate the process of acquiring verifiable credentials and digital wallet support by joining OCI's Early Adopter Program Initiative and signing up directly with the respective service provider(s) listed.
4. Initiate discussions with your VRS solution provider to develop plans for the implementation and testing of ATP credentials integrated in VRS requests and responses.
5. Before testing your ATP credentials with your VRS solution provider, grant your specific VRS provider restricted access rights to your digital wallet. This enables your VRS provider to generate credential presentations of your own ATP credential and to verify received third party ATP credential presentations on your behalf.

From Wholesaler perspective

1. Understand that wholesalers need to obtain 2 credential types: Identity and ATP
2. Understand that wholesalers need to maintain their digital verifiable credentials for Identity and ATP in a digital wallet.
3. Initiate the process of acquiring verifiable credentials and digital wallet support by joining OCI's Early Adopter Program Initiative and signing up directly with the respective service provider(s) listed.
4. Initiate discussions with your VRS solution provider to develop plans for the implementation and testing of ATP credentials integrated in VRS requests.
5. Before testing your ATP credentials with your VRS solution provider, grant your specific VRS provider restricted access rights to your digital wallet. This enables your VRS provider to generate credential presentations of your own ATP credential and to verify received third party ATP credential presentations on your behalf.

Note that the above steps for wholesalers are almost the same as for manufacturers EXCEPT that manufacturers are involved in generating VRS responses.

From Dispenser perspective

1. Understand that dispensers need to obtain 2 credential types: Identity and ATP
2. Understand that dispensers need to maintain their digital verifiable credentials for Identity and ATP in a digital wallet.

3. Initiate the process of acquiring verifiable credentials and digital wallet support by joining OCI's Early Adopter Program Initiative and signing up directly with the respective service provider(s) listed.
4. Initiate discussions with your VRS solution provider to develop plans for the implementation and testing of ATP credentials integrated in VRS requests.
5. Before testing your ATP credentials with your VRS solution provider, grant your specific VRS provider restricted access rights to your digital wallet. This enables your VRS provider to generate credential presentations of your own ATP credential and to verify received third party ATP credential presentations on your behalf.

Note that the above steps for dispensers are almost the same as for manufacturers EXCEPT that manufacturers are involved in generating VRS responses.

From VRS solution provider perspective

1. Understand the technical requirements for integrating ATP verifiable credentials in your VRS solution by familiarizing yourself with Section 5 of OCI's Digital Wallet Conformance Criteria describing Integration with VRS Providers and understand the OCI architecture.
   - Related key resources include:
     - Digital Wallet Provider Open API Specification for Generate Verifiable Presentation
     - Digital Wallet Provider Open API Specification for Verify Verifiable Presentation
     - Credential Schema Specification
     - DSCSA PI Verification and Credentials workflow (see page 5 and page 6)
   - The following matrix outlines the interlinking responsibilities of digital wallet and VRS providers. Note that this matrix is based on the DSCSA PI Verification and Credentials workflow diagrams.

Activity	VRS Solution Provider	Digital Wallet Provider
Initiate Generate VP Request	X	
Generate VP Generate Response		X
Evaluate success flag from VP Generate Response ● if successful, include generated VP in JWT format in the verification request or verification response header ● if unsuccessful, process as failed authorization	X	
Initiate VP Verify Request	X	
Generate VP Verify Response		X
Evaluate success flag from VP Verify Response ● if successful, process verification request or verification response ● if unsuccessful, process as failed authorization	X	

2. Understand how VRS request and response messages will be augmented to include ATP credentials
    - Related key resources includes:
        - [GS1 US Implementation Guideline for Applying GS1 Lightweight Messaging Standard for DSCSA Verification R1.2](#)
3. Initiate discussions with Digital Wallet providers to acquire specific details for testing and accessing Digital Wallet provider-specific endpoints implementing OCI's Digital Wallet Provider Open API Specification. Join [OCI's Early Adopter Program Initiative](#) to explore the participating Digital Wallet providers.
4. Implement your respective VRS product enhancements necessary to integrate ATP verifiable credential requirements.
5. Unit test your ATP credential integration with each respective OCI Digital Wallet provider.
6. Understand the ATP verifiable credential use cases that will be exercised for interoperability testing with other VRS solution providers.
    - Related key resources include:
        - HDA's harmonized VRS interoperability test script. This includes OCI-recommended test cases for OCI Digital Wallet Integration with VRS Providers.
7. Initiate discussions with your respective manufacturer, wholesaler or dispenser customers to request restricted VRS provider access rights to their respective digital wallet solution. This enables you to generate credential presentations of your customer's ATP credential and to verify received third party ATP credential presentations on their behalf.
8. Engage in HDA VRS interoperability test planning by joining the HDA VRS taskforce. Contact jrand@hda.org
9. Participate in HDA VRS interoperability test execution beginning **July 5th 2022**. Contact jrand@hda.org