

Phase 3 – Simple Chart Viewer Tests

1.0 Catalogue Loading

Test reference	1.0	Requirement	1.1
Test Description			
<i>Load S-101 feature catalogue</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load the feature catalogue</i>			
Result			
<i>S-101 feature catalogue loads successfully</i>			

Test reference	1.2-001	Requirement	1.1.1
Test Description			
<i>Load updated S-101 feature catalogue</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load updated feature catalogue</i>			
Result			
<i>Updated S-101 feature catalogue loads successfully</i>			

Test reference	1.2-002	Requirement	1.1.1
Test Description			
<i>Load updated S-101 feature catalogue with an invalid signature</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load updated feature catalogue with invalid digital signature</i>			
Result			
<i>Feature catalogue with invalid signature is rejected</i>			

Test reference	1.3	Requirement	1.2
Test Description			
<i>Load S-101 portrayal catalogue</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load portrayal catalogue</i>			
Result			
<i>S-101 portrayal catalogue loads successfully</i>			

Test reference	1.4-001	Requirement	1.2.1
Test Description			
<i>Load updated S-101 portrayal catalogue</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load updated portrayal catalogue</i>			
Result			
<i>Updated S-101 portrayal catalogue loads successfully</i>			

Test reference	1.4-002	Requirement	1.2.1
Test Description			
<i>Load updated S-101 portrayal catalogue with an invalid signature</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load updated portrayal catalogue with invalid digital signature</i>			
Result			
<i>Portrayal catalogue with invalid signature is rejected</i>			

Test reference	1.5	Requirement	1.3
Test Description			
<i>Load S-10x feature catalogue</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load feature catalogue</i>			
Result			
<i>S-10x feature catalogue loads successfully</i>			

Test reference	1.6	Requirement	1.4
Test Description			
<i>Load S-10x portrayal catalogue</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load portrayal catalogue</i>			
Result			
<i>S-10x portrayal catalogue loads successfully</i>			

2.0 Dataset Loading

Test reference	2.1-001	Requirement	2.1
Test Description			
<i>Load multiple S-101 datasets</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Select and load multiple S-101 datasets</i>			
Result			
<i>Multiple S-101 datasets load successfully</i>			

Test reference	2.1-002	Requirement	2.1
Test Description			
<i>Load multiple S-101 datasets; load an older version of the feature catalogue</i>			
Set up			
<i>Open simple chart viewer and load the latest version of the feature catalogue</i>			
Action			
<i>Load older version of the feature catalogue</i>			
Result			
<i>Older version of the feature catalogue is rejected as the latest version of the feature catalogue is already loaded into the viewer</i>			

Test reference	2.1-003	Requirement	2.1
Test Description			
<i>Load multiple S-101 datasets; load an older version portrayal catalogue</i>			
Set up			
<i>Open simple chart viewer and load the latest version of the portrayal catalogue</i>			
Action			
<i>Load older version of the portrayal catalogue</i>			
Result			
<i>Older version of the portrayal catalogue is rejected as the latest version of the portrayal catalogue is already loaded into the viewer</i>			

Test reference	2.2	Requirement	2.1.1
Test Description			
<i>Load data at multiple display scales</i>			
Set up			
<i>Open simple chart viewer, load multiple datasets with different minimum and maximum display scales</i>			
Action			
<i>Zoom in and out, observing if the datasets turn on and off at the appropriate display scales</i>			
Result			
<i>Datasets are displayed at the appropriate display scale following the minimum and maximum display scale rules</i>			

Test reference	2.3-001	Requirement	2.1.2
Test Description			
<i>Load datasets that are associated with two different editions of the S-101 feature catalogue but within the same major edition</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Load the older version of the S-101 feature catalogue and load datasets that are associated with two different versions of S-101 feature catalogues within the same major edition; determine if the data loads successfully</i>			
Result			
<i>Datasets associated with the older version of S-101 feature catalogue load successfully, those associated with the newer version are rejected</i>			

Test reference	2.3-002	Requirement	2.1.2
Test Description			
<i>Load datasets that are associated with two different editions of the S-101 feature catalogue but within the same major edition</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Load the latest version of the S-101 feature catalogue and load datasets that are associated with two different versions of S-101 feature catalogues within the same major edition; determine if the data loads successfully</i>			
Result			
<i>Datasets associated with both the older and latest version of S-101 feature catalogue load successfully</i>			

Test reference	2.4-001	Requirement	2.1.3
Test Description			
<i>Load datasets that are associated with two different versions of the S-101 portrayal catalogue but within the same major edition</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Load the older version of the S-101 portrayal catalogue and load datasets that are associated with two different versions of S-101 portrayal catalogues within the same major edition; determine if the data loads successfully</i>			
Result			
<i>Datasets associated with the older version of S-101 portrayal catalogue load successfully, those associated with the newer version are rejected</i>			

Test reference	2.4-002	Requirement	2.1.3
Test Description			
<i>Load datasets that are associated with two different versions of the S-101 portrayal catalogue but within the same major edition</i>			
Set up			
<i>Open simple chart viewer</i>			
Action			
<i>Load the latest version of the S-101 portrayal catalogue and load datasets that are associated with two different versions of S-101 portrayal catalogues within the same major edition; determine if the data loads successfully</i>			
Result			
<i>Datasets associated with both the older and latest version of S-101 portrayal catalogue load successfully</i>			

Test reference	2.5	Requirement	2.2
Test Description			
<i>Load S-101 exchange sets</i>			
Set up			
<i>Check the location of S-101 exchange sets containing metadata, support files, datasets, catalogues in XML and that they are accessible</i>			
Action			
<i>Load the S-101 exchange sets</i>			
Result			
<i>S-101 exchange sets are loaded into the simple chart viewer</i>			

Test reference	2.6	Requirement	2.2.1
Test Description			
<i>Read S-101 exchange set catalogue metadata</i>			
Set up			
<i>Access S-101 exchange sets and locate ExchangeCatalogue.xml file</i>			
Action			
<i>Open ExchangeCatalogue.xml and read exchange set metadata elements</i>			
Result			
<i>Able to read the exchange set catalogue metadata</i>			

Test reference	2.7	Requirement	2.3
Test Description			
<i>Load S-10x simple overlay</i>			
Set up			
<i>Open simple chart viewer and load appropriate overlay feature & portrayal</i>			

<i>catalogues</i>
Action
<i>Load S-10x simple overlay and review the information</i>
Result
<i>S-10x overlay loaded into the simple chart viewer successfully</i>

Test reference	2.8	Requirement	2.3.1
Test Description			
<i>Load S-10x exchange sets</i>			
Set up			
<i>Check location of S-10x exchanges sets containing metadata, support files, datasets, catalogues in XML and that they are accessible</i>			
Action			
<i>Load the S-10x exchange sets</i>			
Result			
<i>S-10x exchange sets are loaded into the simple chart viewer</i>			

Test reference	2.9	Requirement	2.3.2
Test Description			
<i>Read S-10x exchange set catalogue metadata</i>			
Set up			
<i>Access S-101 exchanges sets and locate ExchangeCatalogue.xml file</i>			
Action			
<i>Open ExchangeCatalogue.xml and read exchange set metadata elements</i>			
Result			
<i>Able to read the exchange set catalogue metadata</i>			

3.0 Dataset Loading

Test reference	3.1	Requirement	3.1
Test Description			
<i>Ability to pan</i>			
Set up			
<i>Open the simple chart viewer and load dataset</i>			
Action			
<i>Pan around the dataset coverage areas</i>			
Result			
<i>Able to pan all around the dataset coverage areas</i>			

Test reference	3.2	Requirement	3.2
Test Description			
<i>Ability to zoom</i>			
Set up			
<i>Open the simple chart viewer and load dataset</i>			
Action			
<i>Zoom in/out at any location on the chart</i>			
Result			
<i>Able to zoom in/out and display chart content at different display scales</i>			

Test reference	3.3	Requirement	3.3
Test Description			
<i>Ability to query attributes</i>			
Set up			
<i>Open the dataset</i>			

Action
<i>Click on any feature to find attribute information</i>
Result
<i>Able to query features and view attribute information</i>

Test reference	3.4	Requirement	3.3.1
Test Description			
<i>Ability to use the S-101 pick report method</i>			
Set up			
<i>Open viewer and load dataset</i>			
Action			
<i>Query a feature in the dataset using the pick report method</i>			
Result			
<i>Able to use pick report method to obtain feature information</i>			

Test reference	3.5	Requirement	3.4
Test Description			
<i>Ability to use the S-101 palettes</i>			
Set up			
<i>Access S-101 palettes</i>			
Action			
<i>Apply display palettes of daytime, night time and dusk; verify the content displayed for each palette</i>			
Result			
<i>Dataset content displayed with S-101 colour palettes</i>			

Test reference	3.6	Requirement	3.5
Test Description			
<i>Ability to use the S-101 viewing groups</i>			
Set up			
<i>Access viewing groups</i>			
Action			
<i>Set viewing group according to requirement and verify features displayed</i>			
Result			
<i>Viewing groups arranged by IMO Category in the sequence of INT1 can be viewed as groups, facilitating the mariner to switch on/off features</i>			

Test reference	3.0	Requirement	3.5
Test Description			
<i>Ability to change display modes</i>			
Set up			
<i>Access display modes</i>			
Action			
<i>Set the display mode to Display Base, Standard Display and All Other Information; verify the content for each display mode</i>			
Result			
<i>Able to change display mode to Display Base, Standard Display and All other Information</i>			