

## **Redlined BSCP537 changes for CP1355 'Updates to BSCP537 Qualification Appendix 2: Testing Requirements'**

CP1355 proposes changes (deleted information) to BSCP537 section: 1. Overview to Testing

We have redlined these changes against version 2.0 of the BSCP.

## 1. Overview to Testing

System testing is not limited to the functionality and ability of the system software and hardware, but also extends to the supporting business and operational processes. System testing should also include existing systems within your organisation (e.g. customer information systems) that will operate with the systems developed. This may merely cover interfaces, if that is the only relationship between systems, but should not be restricted to this if more complex relationships exist, e.g. the same database table(s) are used by more than one system.

The Applicant will also be expected to test its systems within the environmental constraints defined in the BSC and Code Subsidiary Documents. These will include tests for performance, volume transaction handling, stress, recovery, security and data conversion. Tested components should also include those system components built to support the development and implementation process but which may not be delivered as part of the final operational system, for example data conversion programs or test harnesses.

Test plans should be designed and executed to demonstrate the Applicant's systems and processes can operate in the live environment and interface and communicate with other participants. The Applicant will need to demonstrate that its systems and processes are sufficiently robust not to adversely affect Settlement and that the service complies fully with the SVA Trading Arrangements.

Where individual parts of the system fail their test requirements it is important that the link between those systems and the rest of the system are re-tested through regression testing. If you are applying for re-Qualification and have modified your system you should re-test the links between the elements of the system that have been modified and the rest of the system. This regression testing should also include integration testing with other systems. For defects that require a workaround, evidence should be provided detailing any temporary mitigating action and the planned final resolution of the defect.

If you are applying for re-Qualification and you intend to utilise a different method of communication to that approved on previous applications then interface testing must be undertaken for those interfaces using the proposed method of communication to demonstrate that end to end testing has been performed and has been tested in both directions. (The purpose of interface testing is to prove the routing and format of communications).

Testing evidence should demonstrate that any files that are in a holding area are in the process of being sent and that flows are validated, sent and received and an audit trail is maintained detailing the file transfer status; that the sending participant can create a valid header record with values to identify the correct recipient for the data flow being sent; populate the data flow with a range of valid values in the correct format; identify the data flow as test data; and send the data flow to the receiving participant using correct interface method. The receiving participant must receive the data flow; interpret the header record of each/all files received routing them to their intended destination; and confirm the validity of the data.

New Data Aggregators and Data Collectors will be required to perform arithmetic tests at the start and end of their testing of business processes.

~~Test data will be provided by BSCCO for the purposes of performing the arithmetic testing, the Applicant will be required to format, validate and processes this data through its systems and processes. The output from the arithmetic testing will be compared against the expected results held by BSCCO.~~

When testing business processes the Applicant should demonstrate that it is able to perform all applicable business processes in multiple GSP Groups.