

Testing a Complex Blaise CAPI Instrument

John Fitzgerald; Central Statistics Office, Cork, Ireland

The CSO Blaise team has reconfigured its approach to Questionnaire testing. The new approach has provided us with some insights and useful practical experiences. This presentation will focus on the lessons learned from the challenges, approach and results of testing a large CAPI Questionnaire. Our goals were defined in terms of improving efficiency and flexibility of Questionnaire testing, while also improving output quality.

I will present our approach to documenting the signed-off specifications into test logs. I will detail some of the Industry standard testing techniques we used to derive test cases from the specifications and how we split the Questionnaire into more manageable components for testing. Once the specifications were documented into test logs [or checklists] we began testing. A tester would sign-out a log and perform whatever tests were assigned for that log. Each log template was configured for 5 separate tests - 1) Routing tests, 2) boundary tests, 3) Imputation tests, 4) Error message tests and 5) Question text tests. This means that the Questionnaire was tested fully at least 5 times - each time focusing on a different aspect of the instrument.

I will present a technical paper on how we achieved nearly full coverage of Questionnaire testing by measuring the risks inherent and prioritizing our tests to mitigate potential bugs.