**Business Justification**

**for the development of new ISO 20022 financial repository items**

1. **Name of the request:**

Test Suite.

1. **Submitting organisation(s):**

ISO20022.plus

1. **Scope of the new development:**

Financial instruments in scope: none.

Business Area & Message Set: “test”.

Business Processes:

* Test Schema Generation  
  Tests that schema generation rules are complete, that implementations operate as specified, and to determine the level of validation provided by generated schema.
* Test Message  
  Tests that a message created by a Writer’s software can be understood by a Reader’s software.
* Test Service  
  Tests that a Client and a Service both handle some common service patterns.
* Test Interoperability   
  Includes the above tests.

Business Transactions and their information flows.:

* Test Message
  + Test Minimal – just one Message Building Block.
  + Test Maximal – every combination of datatype, component and elements.
* Test Service
  + Test Reflection – respond with contents of request.
  + Test Idempotency – respond with same response as to previous identical request message.
  + Test Counts – respond with counts of messages received and sent.
  + Test Clocks – include time stamps of producers and each intermediary.

SEG:  
Proposed Evaluation Team membership: from all areas, with TSG or CSH as Lead SEG.

BAH:  
The Business Application Header and similar may be used with these messages.

Syntax:  
Generation of both XML Schema 1.0 and ASN.1 syntax by the RA is requested.  
In addition, we’ll also generate alternative syntax for JSON Schema, Flat Buffers, Protocol Buffers, and SHACL which validates RDF represented in a variety of syntax.

1. **Purpose of the new development:**

The industry benefits from better software, whose quality can be assured by tests with this suite. Use of this test suite to assess software claiming general compliance with ISO 20022,  
enables you to make informed choices. Support for ASN.1 and alternative syntaxes will demonstrate the viability of using ISO 20022 for syntax agnostic modelling.

1. **Community of users and benefits:**

ISO 20022 current, new and potential users.

1. Benefits/savings:
   * Benefit: Confidence that Syntax Message Schemes are generated according to specification, as expected.
   * Savings: A common kit that can be used to test the basics of connectivity and multilateral interoperability during initial setup and in production.
2. Adoption scenario:
   * The expected impact of adopting the new messages in the first few months of a project is to confidently determine which software has the desired capabilities for support of various syntax generated by ISO 20022.
3. Volumes:
   * potential number of users: all existing ISO 20022 users, and those evaluating the use of ISO 20022 for registration of their financial communications.
   * the estimated/expected number of messages: 7 types, in the order of dozens of test messages.
   * targeted ‘critical mass’ and timeframe: 2 over the next year.
4. Sponsors and adopters:
   * Sponsors: Just us taking the initiative. Additional sponsors are welcome.
   * Potential adopters:
     + TSG to support the review of alternative syntax,   
       including JSON Schema.
     + ISO/TC 68/SC 9/WG 4 ISO 20022 Revision  
       to support the revision of the standard, in order to ensure the generation is comprehensively specified and implementable.
     + ISO 20022 software vendors and users - to assure quality of software.
5. **Timing and development:**

* Urgency: There is an urgent need for the test suite to support the revision of the ISO 20022 standard, and the TSG’s review of JSON Schema.
* Delay: The expected consequences of a delay are that programmes reject the use of ISO 20022 due to its lack of support for JSON and other preferred syntax.
* Due: 2023Q4
* Involve: Existing ISO 20022 users active in relevant ISO TC 68 or RMG groups.

1. **Commitments of the submitting organisation:**

The submitting organisation confirms that it can and will:

* undertake the development of the candidate ISO 20022 business and message models that it will submit to the RA for compliance review and evaluation.
* address any queries related to the description of the models and messages as published by the RA on the ISO 20022 website.

The submitting organisation confirms that it will promptly inform the RA about any changes or more accurate information about the number of candidate messages and the timing of their submission to the RA.

The submitting organisation confirm it intends to organize any testing of the candidate messages once they have been reviewed and qualified by the RA and before their submission to the SEG(s) for approval.

The submitting organisation confirm it is committed to undertake the future message maintenance.

The submitting organisation confirm its knowledge and acceptance of the ISO 20022 Intellectual Property Rights policy for contributing organisations, as follows.

*“Organizations that contribute information to be incorporated into the ISO 20022 Repository shall keep any Intellectual Property Rights (IPR) they have on this information. A contributing organization warrants that it has sufficient rights on the contributed information to have it published in the ISO 20022 Repository through the ISO 20022 Registration Authority in accordance with the rules set in ISO 20022. To ascertain a widespread, public and uniform use of the ISO 20022 Repository information, the contributing organization grants third parties a non-exclusive, royalty-free licence to use the published information”.*

1. **Contact persons:**

Jason Polis jason@iso20022.plus

1. **Comments from the RMG members and relevant SEG(s) or SubSEG(s) and disposition of comments by the submitting organisation:**

This section will include the comments received from RMG members and the SEG(s) or SubSEG(s), if any, and the response given to each of these comments by the submitting organisation.