

# Fidectus' Findings & Recommendations to EFET eSM Extension (Chapters 5.4 and 6)

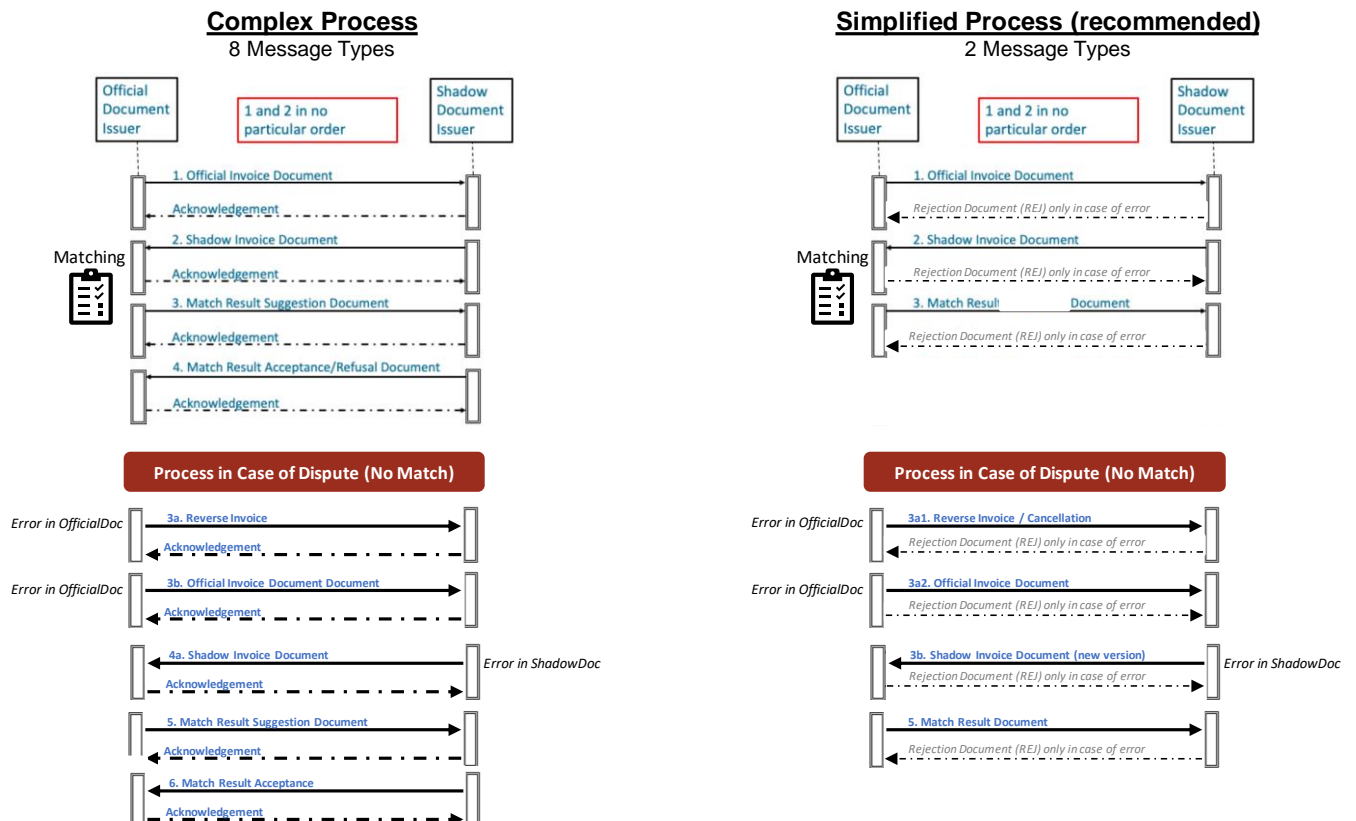
## 1. Summary

In order to simplify the specification, enable innovation and interoperability, we recommend the following changes:

- **The match result and reason are determined by a single source without need of a complex message exchange and state machine.** → Assign responsibility of matching determination to Customer/Payer, Supplier/Payee or their provider. Respective systems would be required to adhere to the matching rules as outlined in the specification. To ensure transparency and information equality, the match result contains not only the match status, but also the compared source documents.
- **All changes should be driven from source documents from Accounting/ETRM systems.** → Remove the Agreed Matched state and associated suggestion and approval processing. Eliminate any redundant message from the process. Therefore, reduce 8 message types to just 2 relevant message types.
- **The Error state should be reserved for document processing Errors.** It should not represent a normal state in settlement negotiation. We recommend using the state "Unmatched" or similar rather than Error for this purpose.

## 2. Complex vs. Simplified Process

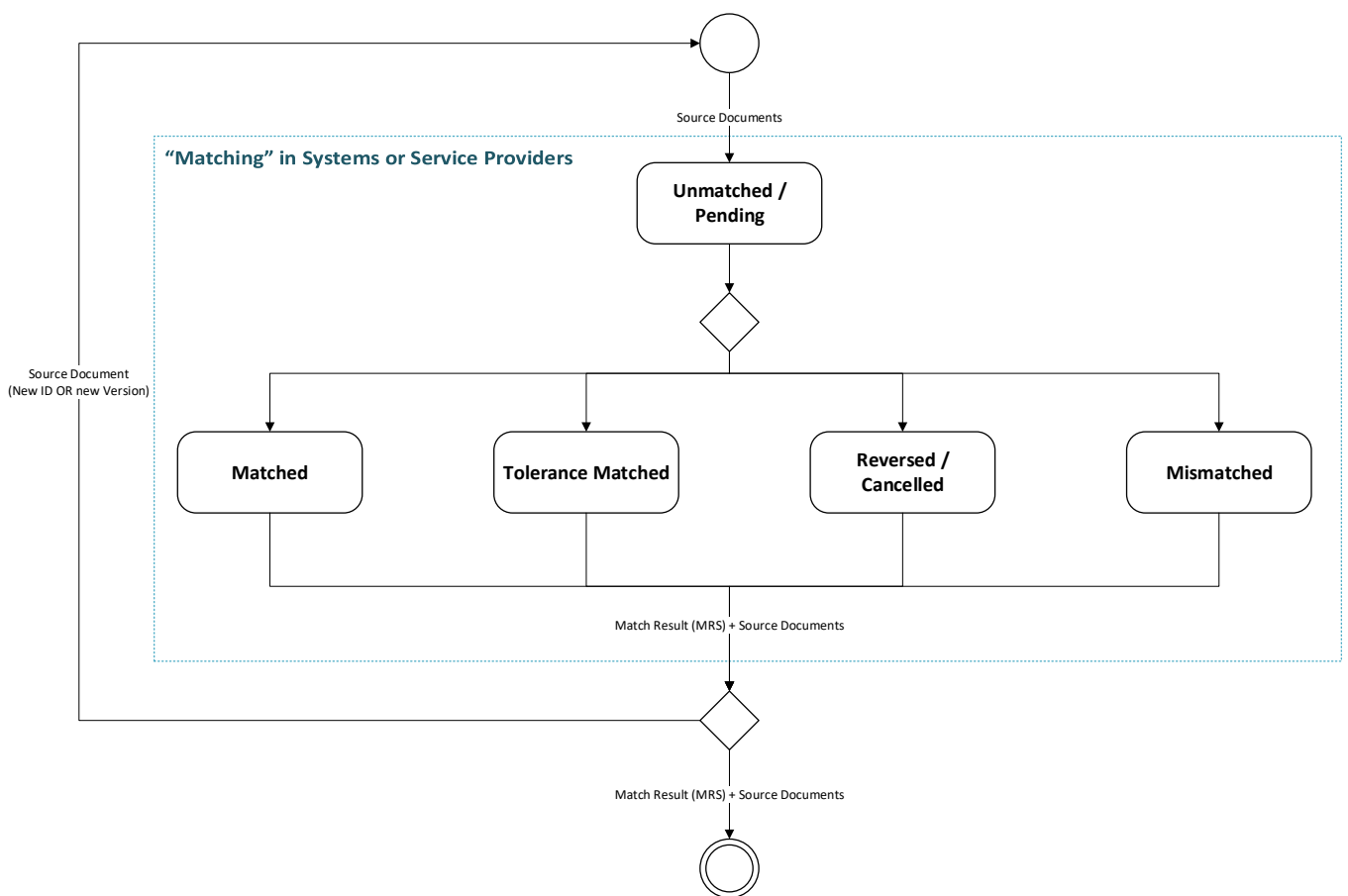
### 2.1 Overview



## 2.2 Message Types

Message Types in complex Process	Message Types in simplified Process
<ol style="list-style-type: none"> <li>1. Match Result Suggestion Document (MRS)</li> <li>2. Match Result Acceptance Document (MRA)</li> <li>3. Match Result Refusal Document (MRR)</li> <li>4. Cancellation Document</li> <li>5. Reactivation Document (RAC)</li> <li>6. Acknowledgement Document (ACK)</li> <li>7. Rejection Document (REJ)</li> <li>8. Box Result Document (BRS)</li> </ol>	<ol style="list-style-type: none"> <li>1. Match Result Document (MR / MRS)</li> <li>2. Rejection Document (REJ)</li> </ol>

## 3. Simplified State Transition Diagram



## 4. Findings and Recommendations - Details

State OR Message	Action	Reason
"Agreed Match Suggested" State	Eliminate	Unnecessary complexity as Customer process creates match result "Mismatched" already. <b>All changes driven by source documents</b> - e.g. one of the matched documents can simply be updated ("agreed") to achieve match or not updated to stick with mismatch (disagreed).
"Agreed Match" State	Eliminate	See description above for "Agreed Match Suggested" State. <b>All changes driven by source documents.</b>
"Agreed Match Suggested" (MRS) message	Eliminate	See description above for "Agreed Match Suggested" State. <b>All changes driven by source documents.</b>
"Agreed Match Confirmed" message	Eliminate	See description above for "Agreed Match Suggested" State. <b>All changes driven by source documents.</b>
"Agreed Match Refusal" (MRR) message	Eliminate	See description above for "Agreed Match Suggested" State. <b>All changes driven by source documents.</b>
"Match Result Suggestion" (MRS) message	Amend & Rename	No matter if "Official Document Issuer" or "Shadow Document Issuer" send their document to their counterparty first. In any case, the data within these source documents are already a "suggested match" and do not require an additional message to state so. After matching the documents, both counterparties require to receive the results. Therefore, the message should not only contain the reasons/results/deltas of the match result but come along with both source documents. In case another iteration is required (e.g. because of a Mismatch), the respective counterparty sends an updated (new Version for Shadow Invoice) or new source document (Reversal process for Invoice). Until Match is achieved, this process is iterative. Therefore, we also recommend renaming the message to "Match Result" (MR).
"Match Result Acceptance" (MRA) message	Eliminate	See description above for "Match Result Suggestion". <b>All changes driven by source documents.</b>
"Match Result Refusal" (MRR) message	Eliminate	See description above for "Match Result Suggestion". <b>All changes driven by source documents.</b>
Acknowledgement Document (ACK) message	Eliminate	Processing errors delivered with "Rejection Document" (REJ). Explicit acknowledgement not necessary.
"Box Result Document" (BRS)	Eliminate	Unclear on purpose of relaying state changes which are defined in specification. Unclear what 'local environment' means. Tolerance result information should be part of the Match Result.
"Error" State	Rename	Do not use Error to indicate a normal state in document processing. Rename to "Unmatched" or "Pending".