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| ***ToR STF 645 (TC ESI)*** |
| Version: 0.7 |
| Author: Juan Carlos Cruellas – Date: 2022-07-26 |
| Last updated by: ETSI Secretariat – Date: 2022-10-18 |
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**Terms of Reference –Specialist Task Force Proposal**

**STF 645 (TC ESI)**

**eDelivery Next Generation.**

**Renovation of Electronic Registered Delivery Service (ERDS) set of standards**

**Summary information**

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| Approval status | Approved by TC ESI ref. doc: ESI(22)000089. | | **YES** |
| Approved by Board#139 (6-8 September 2022) | | **YES** |
| Reference Body | TC ESI | | |
| ETSI Funding | **Maximum budget: 60 140 EUR + 6000 EUR for travels** | | |
| Minimum of 4 ETSI Members Support | **YES** | | |
| Time scale | **From** | 2023-01-16 | |
| **To** | 2024-01-22 | |
| Work Items | [DTR/ESI-0019540v111](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66853)  [DTR/ESI-0019520v111](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66852)  [RTS/ESI-0019524-1v121](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66848)  [RTS/ESI-0019524-2v121](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66849)  [RTS/ESI-0019534-1v121](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66850)  [RTS/ESI-0019534-2v121](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66851)  [REN/ESI-0019522-2v121](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66846)  [REN/ESI-0019522-3v121](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66845)  [REN/ESI-0019532-4v131](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=66847) | | |
| Board priority | [ETSI STF funding criteria](https://portal.etsi.org/STF/STFs/Funding/ETSIbudget.aspx)   |  |  | | --- | --- | | **Priority Criteria** | **X** | | Maintenance of standards in mature domains | X | | Innovation in mature domains | X | | Emerging domains for ETSI | X | | Horizontal activities (quality, security, etc.) |  | | Societal good / environmental | X | | | |

**Part I – STF Technical Proposal**

1. **Rationale & Objectives**
   1. **Rationale**

The eIDAS Regulation[[1]](#footnote-1) entered into force in 2014 aiming to “enhance trust in electronic transactions in the internal market**[[2]](#footnote-2)**” and “creating appropriate conditions for the mutual recognition of key enablers across borders, such as electronic identification, electronic documents, electronic signatures and **electronic registered delivery services**, and for interoperable e-government services across the European Union**[[3]](#footnote-3)**”. In fact the Commission “identified the fragmentation of the digital market, the lack of interoperability and the rise in cybercrime as major obstacles to the virtuous cycle of the digital economy**[[4]](#footnote-4)**”.

The eIDAS Regulation relies on standardisation as it provides for trust services, and in particular for electronic registered delivery services (ERDS), the option for the Commission to issue implementing acts establishing reference of standards providing presumption of conformity with the relevant requirements of the Regulation in case of compliance with referenced standards.

On June 3, 2021 the Commission adopted a proposal to amend the eIDAS Regulation**[[5]](#footnote-5)** (“eIDAS 2.0” henceforth).

According to this proposal, publication of delegated acts by the Commission referencing standards would become mandatory for (among the others) ERDS, in line with the text in the recital 24 of eIDAS 2.0: “It is essential to provide for a legal framework to facilitate cross-border recognition between existing national legal systems related to electronic registered delivery services”.

The two main drivers for the standardisation activity proposed are:

* To propose a new framework of ERDS standards identifying the changes to be performed in the currently existing standard framework and the new components brought by eIDAS 2.0 (see Deliverable D2);
* To identify the impact of emerging technologies on ERDS Models (see Deliverable D1).

It should be noted that the Rolling Plan for ICT Standardisation 2022 in the chapter “Electronic identification and trust services including e-signatures” requests in Action 2, among the other, “Adapting existing standards to take into account new provisions of eIDAS 2.0”.

Therefore, it is expected that activities proposed by D1 and D2 can be progressed with European funding.

On the basis of the requests and contributions from Italy that decided to evolve the existing national registered delivery service, with almost **14 millions of active accounts at the end of 2021** and with around **2.5 billions of messages** exchanged per year[[6]](#footnote-6), to be a standard based eIDAS qualified and registered delivery trust service, starting from 2020 ETSI ESI started to work on the concept of “REM Baseline”.

REM (Registered Electronic Mail) is an ERDS based on electronic mail protocols, and REM baseline, defined in ETSI EN 319 532-4 V1.2.1, specifies a minimal set of requirements aiming to ensure maximal interoperability in the cross-REM interoperability domain and, specifically, in cross-border use of REM services.

Compliance with REM Baseline aims to simplify technical support of REM by Member States competent authorities supporting qualified registered electronic delivery services.

ETSI has already held a Plugtests© event addressing REM Baseline on May 2021, service providers implemented the first REM Baseline prototypes and this provided an important feedback on REM Baseline, before the ENAP. The Plugtests© event also confirmed the validity of the approach to ensure trust compliance and interoperability, as per eIDAS regulation principles.

The REM Baseline has been implemented to meet the time to market requirements and ETSI ESI agreed on the opportunity to extend the Baseline concept to all the ERDS framework of standards. This is also fully in line with the principle of recital 24 of eIDAS 2.0 “to provide for a legal framework to facilitate cross-border recognition between existing national legal systems related to electronic registered delivery services”.

The extension of the Baseline concept to the entire ERDS standard requires a harmonization and reorganization of the framework of electronic registered delivery services (ERDS) standards, in an evolutionary and forward-looking perspective.

The extension to the ERDS framework aims to ensure compliance in terms of trust and interoperability, for a wide range of solutions using underlying binding protocols other than electronic mail, in order to achieve common requirements in terms of trust and interoperability. It is required to have a well-defined and organized set of concepts and definitions to identify how these bindings may support a shared baseline of requirements in terms of existing technology, protocols and technical details.

To support these requirements, considered essential to fully achieve the interoperability ambitions of eIDAS 2.0, further reorganization work will be needed in particular with regard to the ERDS framework that can exploit all the material already produced for the REM baseline.

Additional requirements from the market can be considered during this reorganization and accommodation work.

The proposed work may support EU initiatives such as the Digital Europe Programme eDelivery Building Block[[7]](#footnote-7) and the Single Digital Gateway established by the Regulation (EU) 2018/1724.

Furthermore, new ERDS models are emerging, where events are tracked in electronic ledgers, and new technologies might impact in the provision of ERDS/REM services. Without standardisation these new models and technologies will be implemented independently by different ERDS without any chance to interoperate. It is proposed to evaluate the impact of emerging technologies on ERDS/REM Models to identify the actions needed not only to ensure interoperability of implementations based on emerging technologies and models, but also with implementations based on the existing set of standards in terms of the ERDS Evidence, the foundational component of ETSI ERDS and REM that guarantee a uniform format to prove the registered delivery events such as the proof of sending and receiving the data.

This action also aims to update the set of technical specifications defining the test suites to test interoperability and test assertions for conformance checking, as documents that facilitate the deployment of services that are compliant, trusted and interoperable in a wide range of ERDS.

Concerning EN 319 521 and EN 319 531, at this stage, and given that this ToR intends to produce planning for the major changes and implement only quick changes to the published deliverables, it would be more appropriate to start planning the changes to the policy rules but implement the changes only following the approval or consolidation of the text of the eIDAS 2.0 Regulation. While it is true that both REM and ERDS service do not undergo significant changes in the proposed text, it is also true that other changes that the eIDAS 2.0 Regulation proposes will have an impact on how it is provided: use of the wallet for identification, standardisation of ID Proofing processes, revision of EN 319 401, etc.

In this regard, EN 319 401 is pending revision in order to adapt it to the changes included in the eIDAS 2.0 Regulation, specifically the changes introduced by the NIS2 Directive on the trust service security requirements. In addition, the new version of ISO/IEC 27002:2021 has to be taken into consideration.

* 1. **Objectives of the work to be executed**

In the following a list of objectives of the proposed action are identified, the first two items are the “planning” deliverables, as explained in the first part of the rationale (clause 1.1) while the following items specify the quick changes expected to be implemented in the published deliverables, which are in preparation for the most significant changes identified in the “planning” deliverables:

1. Impact of emerging technologies and models for ERDS/REM provision:
   * Monitor models where events are tracked in electronic ledgers (be they DLTs or centralized repositories)
   * Monitor advances in parallel standardisation progress (ISO, UPU/CEN).
   * Monitor progress of EC initiatives such as Single Digital Gateway and Digital Europe Program, EBSI, etc.
2. Propose a new framework of standards for ERDS, which takes into account the new requirements and components defined in eIDAS 2.0, as well as the incorporation of an ERDS HTTP-based baseline.
3. Reorganise the entire framework for better accommodating the content produced for the REM Baseline, and also reorganise material that at present is within REM Baseline.
4. Review of Evidence:
   * Review of the set URLs for new Reason Codes identified during the production of REM Baseline;
   * Include the semantics and the syntax of the new RelayEvidenceInfo extension as specified during the production of REM Baseline.
5. Further detail possible changes in the technical specifications already outlined in Draft ETSI SR 019 003 “Possible Standards for eIDAS 2.0” taking into account the impact of the new “components” anticipated in eIDAS 2.0 (wallet, electronic attestations, etc), also including how to improve interoperability (such as neutral technical requirements in Policy document that could benefit interoperability)
6. Identify the issues that shall impact the policy and security requirements standards taking into account the impact of all the previous points, and all the close important events that will impact on this document, including issues like identity proofing, and others.
7. Update the TSs on conformance and interoperability:
   * Update of Incorporation of certain material generated for the Plugtests© into informative annexes of the technical specifications on testing (Test cases for REM Baseline must be added). for:
   * Covering the Baseline Profiles
   * Dealing with changes in the technical specifications.
   1. **Previous funded activities in the same domain**

In the field of Electronic Registered Delivery Services and Registered Electronic Mail Services no standardization activity was funded directly by ETSI so far.

Earlier standardisation work was performed by ETSI TC ESI funded by the EC and on a voluntary basis to produce the framework of standards based on the contents of the ETSI SR 019 050 with the publication, in 2018, of the following set of standards for Electronic Registered Delivery, fully in line with the rationalised framework:

* EN 319 521 “Policy and Security Requirements for Electronic Registered Delivery Service Providers”
* EN 319 522 “Electronic Registered Delivery Services”
* EN 319 531 “Policy and Security Requirements for Registered Electronic Mail (REM) Service Providers”
* EN 319 532 “Registered Electronic Mail (REM) Services”
* TS 119 524 “Testing Conformance and Interoperability of Electronic Registered Delivery Services”
* TS 119 534 “Testing Conformance and Interoperability of Electronic Registered Mail Services”.
* TR 119 500 “Business Driven Guidance for Trust Application Service Providers”

In accordance with the taxonomy of specifications defined in ETSI TR 119 000, the SR 019 050 proposed in fact the production of three types of deliverables: ETSI ENs for policy and security requirements (ENs 319 5x1), ETSI ENs for technical specifications (ETSI EN 319 5x2), and ETSI TSs for testing conformance and interoperability (ETSI TS 119 5x4).

* 1. **Market impact**

As explained in the rationale (clause 1.1) the main drivers for the proposed action are:

* Plan the support for eIDAS 2.0 with a specific focus on introducing the interoperability facility of the REM baseline in the entire framework of ERDS standard for solutions not using electronic mail protocols;
* Plan support of emerging technologies and models with a specific focus on interoperability;
* Introduce quick changes in the ERDS/REM standard framework to pave the way for the future substantive changes planned.

More specifically, for the first item, a new binding protocol featuring innovative flexibility and adaptability characteristics compared to electronic mail protocols, and capable of guaranteeing a wide-ranging interoperability between also different e-delivery paradigms, is based on HTTP.

In the present case it is possible to provide the building blocks so that the digital communications can take place through a very light layer based on the universal and consolidated HTTPS, i.e. HTTP over TLS, that adds a security and reliability layer to the plain HTTP. HTTPS binding can provide an innovative vision to REM baseline allowing to introduce a consistent degree of interoperability and potential compatibility with many kinds of e-delivery systems (including also REM itself).

The perspective is strongly oriented to allow the "reuse" of existing methodologies and technologies but in a simplified and open way; as, of course, to the construction of new communication services having high degree of interoperability and integration with existing information systems, both in the public and private sectors.

Being able to use this new binding protocol as basis for the transfer of user's information content with high performance, a great variety of interfaces can be built on top of it, opening to simplify usability and accessibility of the ERDS from any point and any device, with long-term operation costs savings.

The low overhead (due to a simple and compact layer), and the widespread use, allow economies of scale and implementation of existing solutions to reduce energy and environmental impact.

Furthermore, having already addressed the vast majority of the issues (with rationales, schemes, examples) in REM baseline definition, it is believed that a real minimum effort is required to produce such a baseline using the HTTPS protocol.

Another expected positive impact will derive from the introduction of the European Digital Identity (EUDI) Wallet. The identification of the sender and the addressee in a REM exchange will benefit from standardised, open, user friendly and accessible solutions with HTTPS. It is then expected that the integration of the EUDI Wallet with HTTPS based solutions will be straightforward.

* 1. **Consequences if not agreed**

ETSI standards are currently the state of the art for ERDS. The Italian deployment of the REM baseline compliant system, replacing the currently implemented legacy system, will surely make it the most widespread eIDAS compliant ERDS in Europe.

However, in order to make ERDS a commodity, used by a large number of citizens, public entities and the private sector (especially considering SMEs), a further step is needed. The main limitation of REM baseline is that it is limited to electronic mail protocols. On the other hand, standard solutions to achieve the degree of interoperability guaranteed by REM Baseline with other protocols, such as HTTPS, do not exist. This is expected to greatly limit the potential diffusion of ERDS implementation based on ETSI standards in the medium and long term.

In case the introduction of HTTPS in the medium term, and of new technologies and models on a longer term is further delayed, many advantages that the Baseline concept can introduce could be lost due to a late time-to-market.

1. **Relation with ETSI strategy and priorities**

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| --- | --- |
| Priority Criteria | Rationale |
| Maintenance of standards in mature domains | The action foresees quick changes on the existing framework of deliverables (see deliverables D3 … D9). This is propaedeutic to the innovation planned with deliverables D1 and D2 that are the core of the action proposed. |
| Innovation in mature domains | A new set of emerging technologies is expected to impact electronic delivery services provision (which could even bring new provision models) and must be quickly assessed so that ETSI standards can continue to be the state of the art for the ERDS/REM market. Without standardization the provision of services embracing the aforementioned technologies would lead to huge interoperability problems across different solutions.  In addition to that, the coming eIDAS 2.0 will bring new requirements and components which will have for sure a relevant impact on the provision of electronic delivery services.  The two previous facts make that it is of paramount importance first to make a deep analysis of both the emerging technologies and models provisions, and the new normative framework represented by eIDAS 2.0; and second to re-define the framework of standards for electronic registered delivery services provision.  These are targeted by deliverables D1 and D2, the core output of the proposed action. |
| Emerging domains for ETSI | Deliverable D1 considers emerging technologies and models that may represent new domains for ETSI. |
| Horizontal activities (quality, security, etc.) |  |
| Societal good / environmental | A user friendly, widespread, accessible, reliable and secure eDelivery completely replacing registered paper mail is a societal good and reduces the impact on the environment. |

1. **ETSI Members Support**

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| --- | --- | --- |
| **#** | **ETSI Member** | **Supporting delegate** |
| 1 | InfoCert | Luigi Rizzo |
| 2 | CertiCar S.L. | Paloma Llaneza |
| 3 | Uninfo | Veronica Salsano |
| 4 | DAC-UPC | Juan Carlos Cruellas |
| 5 | SBS aisbl | Andrea Caccia |
| 6 | DIGITAL SME | Omar Dhaher |

1. **Deliverables**
   1. **Base documents**

|  |  |  |
| --- | --- | --- |
| Document | **Title** | **Status** |
| ETSI EN 319 521 v1.1.1 | Policy and security requirements for Electronic Registered Delivery Service Providers | Published |
| ETSI EN 319 522-1 v1.1.1 | Electronic Registered Delivery Services; Part 1: Framework and Architecture | Published |
| ETSI EN 319 522-2 v1.1.1 | Electronic Registered Delivery Services; Part 2: Semantic Contents | Published |
| ETSI EN 319 522-3 v1.1.1 | Electronic Registered Delivery Services; Part 3: Formats | Published |
| ETSI EN 319 522-4-1 v1.2.1 | Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 1: Message delivery bindings | Published |
| ETSI EN 319 522-4-2 v1.1.1 | Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 2: Evidence and identification bindings | Published |
| ETSI EN 319 522-4-3 v1.1.1 | Electronic Registered Delivery Services; Part 4: Bindings; Sub-part 3: Capability/requirements bindings | Published |
| ETSI TS 119 524-1 v1.1.1 | Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 1: Testing conformance | Published |
| ETSI TS 119 524-2 v1.1.1 | Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 2: Test suites for interoperability testing of Electronic Registered Delivery Service Providers | Published |
| ETSI EN 319 531 v1.1.1 | Policy and security requirements for Registered Electronic Mail Service Providers | Published |
| ETSI EN 319 532-1 v1.1.1 | Registered Electronic Mail (REM) Services; Part 1: Framework and Architecture | Published |
| ETSI EN 319 532-2 v1.1.1 | Registered Electronic Mail (REM) Services; Part 2: Semantic Contents | Published |
| ETSI EN 319 532-3 v1.2.1 | Registered Electronic Mail (REM) Services; Part 3: Formats | Published |
| ETSI EN 319 532-4 v1.2.1 | Registered Electronic Mail (REM) Services; Part 4: Interoperability profiles | Published |
| ETSI TS 119 534-1 v1.1.1 | Testing Conformance and Interoperability of Registered Electronic Mail Services; Part 1: Testing conformance | Published |
| ETSI TS 119 534-2 v1.1.1 | Testing Conformance and Interoperability of Registered Electronic Mail Services; Part 2: Test suites for interoperability testing of providers using same format and transport protocols | Published |
| ETSI TS 119 500 v1.1.1 | Business Driven Guidance for Trust Application Service Providers | Published |
| ETSI SR 019 050 v1.1.1 | Rationalised framework of Standards for Electronic Registered Delivery Services Applying Electronic Signatures | Published |
| ETSI TS 119 000 v1.2.1 | The framework for standardization of signatures: overview | Published |
| ETSI TS 119 001 v1.2.1 | The framework for standardization of signatures;  Definitions and abbreviations | Published |

* 1. **New deliverables**

|  |  |  |  |
| --- | --- | --- | --- |
| D**eliv.** | **Work Item code**  **Standard number** | **Working title**  **Scope** | **Expected date for publication** |
| D1 | DTR/ESI-0019540v111 | Working title: "Impact of emerging technologies on ERDS/REM Models"  Scope: This document will list a number of concrete proposals on ERDS/REM services provision and models, coming from a close monitoring of:   * emerging models where events are tracked in electronic ledgers; * emerging technologies that might impact in the provision of ERDS/REM services; * relevant standardisation activity within other ETSI TBs/ISGs (like ISG PDL -Permissioned Distributed Ledgers) that could impact ERDS/REM field (like * standardisation of ERDS in other standardisation Organizations (like ISO, UPU, CEN, OASIS); * progress of EC initiatives such as Single Digital Gateway, Digital Europe Program, EBSI, etc. | December 2023 |
| D2 | DTR/ESI-0019520v111 | Working title: "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 "  Scope: This document will define the new framework of standards that specify ERDS and REM, identifying the most relevant changes to be performed in the framework currently existing, among which: the incorporation of an ERDS HTTP-based baseline, offering similar features than REM baseline but on HTTP-based protocols; those due to the changes brought by eIDAS 2.0 (including new components such as the EU eWallet, and the Electronic Attribute Attestations); and those ones due to emerging technologies that might have an impact in this field.  It will also contain recommendations for updating ETSI TR 119 000 and ETSI TR 119 001.  Finally, this document shall also identify the issues that may impact in the policy and security requirements standards. | December 2023 |
| D3 | REN/ESI-0019522-2v121 | Working title: EN 319 522-2: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 2: Semantic contents"  Scope: This document will be a revision of the current EN 319 522-2 for: incorporating URLs for new Reason Codes identified during the production of REM Baseline, including the specification of the semantics of the new RelayEvidenceInfo extension specified during the production of REM Baseline, and will deal with any other minor issue uncovered during the life of this project | December 2023 ready for ENAP process\* |
| D4 | REN/ESI-0019522-3v121 | Working title: EN 319 522-3: "Electronic Signatures and Infrastructures (ESI); Electronic Registered Delivery Services; Part 3: Formats"  Scope: This document will be a revision of the current EN 319 522-3 for including definition of new extension RelayEvidenceInfo for ERDS Evidence specified during the production of REM Baseline, and implement any other minor fixes that might be identified during the life of the project. | December 2023 ready for ENAP process\* |
| D5 | REN/ESI-0019532-4v131 | Working title: EN 319 532-4: "Electronic Signatures and Infrastructures (ESI); Registered Electronic Mail (REM) Services; Part 4: Interoperability profiles"  Scope: This document will be a revision of the current EN 319 532-4 for harmonising its contents to the rest of the framework of ERDS and REM standards. More specifically, harmonization of the specification of the semantics and the syntax of RelayEvidenceInfoERDS Evidence extension and the new Reason Codes identified during the production of REM Baseline, shall be considered and dealt with. | December 2023 ready for ENAP process\* |
| D6 | RTS/ESI-0019524-1v121 | Working title: TS 119 524-1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 1: Testing conformance"  Scope: This document will amend the current version of ETSI TS 119 524-1 adding test assertions for testing conformance to the new requirements derived from the amendments implemented in the EN 319 522 multipart standard. | December 2023 |
| D7 | RTS/ESI-0019524-2v121 | Working title: TS 119 524-2: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 2: Test suites for interoperability testing of Electronic Registered Delivery Service Providers"  Scope: This document will amend the current version of ETSI TS 119 524-2 adding test cases for testing interoperability for the requirements derived from the amendments implemented in the EN 319 522 multipart standard. | December 2023 |
| D8 | RTS/ESI-0019534-1v121 | Working title: ETSI TS 119 534-1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Registered Electronic Mail; Part 1: Testing conformance"  Scope: This document will amend the current version of ETSI TS 119 534-1 for amending the current version with the requirements derived from the amendments implemented in the ERDS/REM multipart standards. | December 2023 |
| D9 | RTS/ESI-0019534-2v121 | Working title: TS 119 534-2: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Registered Electronic Mail; Part 2: Test suites for interoperability testing of providers using same format and transport protocols"  Scope: This document will amend the current version of ETSI TS 119 534-2 adding test cases for testing interoperability of REM baseline, and incorporating the requirements derived from the amendments implemented in the ERDS/REM multipart standards. | December 2023 |

\*As the ENAP process shall not be ended when the STF will end, the members of the STF commit to perform, on in-kind basis, the work required during this process, once the STF has finalised

1. **Maximum budget**
   1. **Task summary/Manpower Budget**

| **Task short description** | **Budget (EUR)** |
| --- | --- |
|
| New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 | 18600 Euros |
| Impact of emerging technologies on ERDS/REM Models | 18600 Euros |
| STF Organization | 4960 Euros |
| Amend existing ERDS technical specifications and business guidance document | 3720 Euros |
| Amend REM technical specifications | 1860 Euros |
| Amend TSs for Conformance and Interoperability | 12400 Euros |
| **TOTAL** | 60140 Euros |

* 1. **Travel budget**

The travel budget estimated for this STF is of 6000 Euros (6 travels within the European Union, each one with a budget 1000 Euros).

Three travels to Plenary TB of one representative of the STF.

Three travels for meetings with stakeholders and conference(s).

**Part II – Details on STF Technical Proposal**

1. **Tasks, Technical Bodies and other stakeholders**
   1. **Organisation of the work**

The ETSI STF through which this work will be performed will comprise 5 providers. Collectively, the STF providers will need between them to possess an in-depth established knowledge of the following domains:

* Deep knowledge of the framework of the ETSI specifications listed in clause 4.1, as well as of ETSI EN 319 521 and ETSI EN 319 531
* Deep knowledge of electronic delivery related protocols (like SOAP and RESTFul Web Services Stack, ebXML Messaging, etc.), service discovery and locations protocols, and REM related protocols (SMTP, S/MIME).
* Deep knowledge of ISO 27001, ISO 27002, ISO 27005, and ETSI EN 319 401.
* Experience in provision of ERDS/REM services and awareness in emerging technologies and potential new models for ERDS/REM provision.
* Experience in drafting European Standards.

The STF Leader will be appointed from one of the providers and will be responsible for co-ordinating the execution of the tasks assigned to the individual providers, according to the requirements in the Terms of Reference (based on the action grant) and following the technical direction given by TC ESI. The STF leader will also possess project management experience, report writing skills, experience of consensus building, presentation skills, experience of working in an international environment, and in liaising with other international organisations.

The providers will be organised to deliver on the following tasks (or group of tasks). For each document (or group of documents), one main editor shall be appointed. It is expected that, depending on the specific document, the rest or part of the rest of the providers, will contribute to the amendments to be implemented, and that each document is reviewed by the whole team. Below follows a more detailed distribution of editorship responsibilities, which will be distributed trying to keep balanced editorial efforts among the different providers who have experience in drafting ETSI standards. The providers that must contribute to each deliverable shall be selected on the basis of their specific profiles.

* T1. Impact of emerging technologies on ERDS/REM models. One provider shall be appointed editor of the ETSI Technical Report "Monitoring emerging ERDS/REM Models".
* T2. New ERDS/REM standards framework to eIDAS 2.0 and emerging technologies. One provider shall be appointed editor of the ETSI Technical Report "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 "
* T3. Amend existing ERDS technical specifications and business guidance document. One provider shall be appointed editor of parts of ETSI EN 319 522 that need to be amended. One provider shall be appointed editor of the new version of ETSI TR 119 500. Amend REM technical specifications. As the ENAP process shall not be ended when the STF will end, the members of the STF commit to perform, on in-kind basis, the work required during this process, once the STF has finalised.
* T4. Amend REM technical specifications. One provider shall be appointed editor of parts of ETSI EN 319 532 that need to be amended. As before, because the ENAP process shall not be ended when the STF will end, the members of the STF commit to perform, on in-kind basis, the work required during this process, once the STF has finalised.
* T5. Amend TSs for Conformance and Interoperability. One provider shall be appointed editor of parts of the new versions of ETSI TS 119 524 and ETSI TS 119 534

At the beginning of the activities of the STF a detailed work plan shall be generated for each deliverable, which will allow ETSI ESI TB to ascertain that the STF the progress of the work to be done and the alignment to the initial plan.

The liaisons with the ETSI ESI TB and other ETSI TBs shall be managed by the STF leader. The STF leader may delegate the management of liaisons with specific stakeholders to other members of the STF depending on their profiles and proximity to these stakeholders (a provider might, for instance, be also a member of a certain committee of another standardisation organisation, or member of an EC-funded project).

The STF leader, and very likely, other members of the STF shall attend every ETSI ESI TB Plenary Meeting that takes place during the life time of the project. At those meetings, the STF shall report the status of the STF, and whenever necessary, shall ask advice on specific relevant issues.

Coordination with various stakeholders, standards organisations and European projects will be necessary, under TC ESI supervision, to achieve the best outcome of this work and the widest possible collection of views amongst all parties concerned (see section 7 for further details). In particular, the members of the STF will aim to start or continue already formalised liaison with obvious stakeholders including the Member State and EU commission representatives through the eIDAS (technical) experts group, CEN TC 331 WG2, UPU, Digital Europe Program (especially its eDelivery and eID building blocks), ISO/TC 154/WG 6, as well as other relevant players in the fields of electronic delivery and registered electronic mail that the STF team may identify during the life of the project.

The STF team will individually approach each stakeholder at the beginning of its activities for presenting its scope, calendar, and committed output, so that a channel for a fluid exchange of information is established from the very beginning. After the initial contact, the STF team will assess the suitability of conducting meetings with selected stakeholders, in the view of their activities and the relevance they may have for the work committed by the STF.

The STF team will also circulate draft versions among selected stakeholders of its deliverables (after obtaining the approval of the ETSI ESI TB, likely some time shortly after the achievement of Milestone B -see below section 7.2) for getting their feedback.

Finally, it is not considered worthwhile to create a Steering Group for the project, due to the short life time of the project, and the nature of the work to be done by the STF.

* 1. **Tasks for which the STF support is necessary**

All the tasks described in section 7 of the present document must be carried out within a STF, due to the lack of in-kind resources left to the delegates within the ETSI ESI TB. It has to be taken into account that, at the moment of producing this document, a good number of delegates are involved in the generation of specifications dealing with EU Wallet components, and also in the maintenance of a relevant number of other ETSI ENs, in the light of the comments received from stakeholders and which require careful consideration and a considerable amount of work.

* 1. **Other interested ETSI Technical Bodies**

The ETSI Technical Body that must be involved in this STF is the Electronic Signatures and Infrastructure (ESI) TB. ETSI ESI TB must be involved for:

* Providing advice to the STF team on any specific consultation made by the STF team.
* Reviewing and approving all the deliverables produced by the STF team.
* Establishing and/or facilitating liaisons with entities (standardisation organisations, EC-funded initiatives, EC-funded projects) whose activities shall be monitored by the STF team.
* Increasing awareness of the activity performed by the STF team.
  1. **Other stakeholders**

Below follows an initial list of stakeholders inside and outside ETSI:

* ETSI Industry Specification Group (ISG) Permissioned Distributed Ledger (PDL).
* ISO/TC 154/WG 6, with regards to the multi-part standard ISO 19626: "Trusted communication platforms for electronic documents".
* Universal Postal Union, with regards to the UPU standard S52: "Functional specification for postal registered electronic mail".
* CEN/TC 331/WG 2, with regards to its specifications on Hybrid Mail.
* OASIS, with regards to ebXML, AS4 specifications.
* EC Single Digital Gateway initiative.
* Digital Europe Program, with regards to several of its building blocks (eDelivery and eID).
* EC European Block-chain Services Initiative (EBSI), with regards to the potential impact that blockchain technology could have on ERDS/REM Services provision.
* Any other relevant entity that is identified during the life time of the STF.

**Part III: Execution of Work**

1. **Work plan, time scale and resources**
   1. **Task description**

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| --- | --- |
| **Task #0** | ***Title: STF Organisation*** |
| **Objectives** | This task shall be the responsibility of the STF Leader and aims at:   1. Plan the work of the STF members, ensuring that the timescales of the STF deliverables are met 2. Organise STF meetings to discuss the drafts, record any major issues and resolutions of the STF, identify and progress the actions of STF members 3. Report to TC ESI on the work of the STF 4. Represent, or arrange other STF members to represent, the STF at other external meetings 5. Provide drafts of the IR and FR to the ETSI secretariat |
| **Input** | The input for this task shall be the STF Terms of Reference |
| **Output** | The STF shall deliver:   1. One STF Interim report to ETSI ESI TB. 2. The STF Final report to ETSI ESI TB.   They will provide detailed information on the STF activity including the distributions of tasks, liaisons conducted, meetings/events attended, promotion-related activities, status of the work, assessment of technical risks, lessons learned, assessment of performance indicators, recommendations for future activities, etc. |
| **Interactions** | The STF Leader will interact with the Reference Body, for reporting the status of the STF at the Reference Body official meetings, and for presenting any consultation requesting its guidance on behalf of the STF.  The STF Leader will also interact with the Reference Body chair and co-chairs for raising any issue that, in its opinion, must be presented to them in order to get their guidance. |
| **Resources required** | This task requires the following skills:   * Experience in leading other ETSI STFs; * Knowledge of the ETSI STF Process and rules; * Experience in reporting STF activities to ETSI TBs;   The estimated effort required for this task is 8 man-days |

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| **Task #1** | ***Title: Impact of emerging technologies on ERDS/REM models*** |
| **Objectives** | This task aims at identifying a number of concrete proposals on ERDS/REM services provision and models, coming from a close monitoring of emerging ERDS/REM technologies and Models not included in the current framework of standards. |
| **Input** | Inputs collected from stakeholders strongly engaged with other technologies such as Industry Specification Group (ISG) Permissioned Distributed Ledger (PDL), EC European Blockchain Services Initiative (EBSI), etc.  Inputs collected from stakeholders that are planning to provide, or are currently providing, electronic delivery services using technologies that are not the ones envisaged in the current framework of standards.  Inputs from research institutions doing research in technologies that might impact the provision of electronic delivery services. |
| **Output** | The output of this task shall be the ETSI Technical Report "Impact of emerging technologies on ERDS/REM Models"  This document will list a number of concrete proposals on ERDS/REM services provision and models.  The document shall analyse:   * Technologies which are currently being used for providing electronic delivery services other than those present in the framework of standards. * Emerging technologies that, although not used yet in the provision of electronic delivery services, could impact (either in some aspects or in most of the relevant aspects) of their provision.   The document shall also provide:   * Detailed analysis on how these technologies might impact the provision of electronic registered delivery services * Concrete proposals on new models for provision of electronic registered delivery services |
| **Interactions** | The Reference Body shall be consulted for guidance whenever the STF team shall need this guidance and to ensure the progress of deliverables within the standardisation procedures.  The STF team shall also interact with:   * ETSI Industry Specification Group (ISG) Permissioned Distributed Ledger (PDL) * EC Single Digital Gateway initiative. * ISO/TC 154/WG 6 * Digital Europe Program (eDelivery and eID building blocks) * OASIS * Research institutions * Potential providers of electronic registered delivery services using technologies other than the ones present within the current framework of standards. |
| **Resources required** | This task requires:   * Deep knowledge of the current framework of standards and the technologies present there. * Knowledge of emerging technologies that could impact ERDS provision.   The estimated effort required for this task is 30 man-days |

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| **Task #2** | ***Title: New ERDS/REM standards framework to eIDAS 2.0 and emerging technologies*** |
| **Objectives** | This task aims at defining the new framework for standards specifying Electronic Registered Delivery Services and Registered Electronic Mail, in the light of:   * The eIDAS 2.0 * Emerging technologies that could impact the provision of the service |
| **Input** | * ETSI EN 319 521 v1.1.1 * ETSI EN 319 522 v1.1.1 (Multipart document) * ETSI EN 319 531 v1.1.1 * ETSI EN 319 532 (Multipart document) * ETSI TS 119 524 v1.1.1 (Multipart document) * ETSI TS 119 534 v1.1.1 (Multipart document) * eIDAS 2.0 |
| **Output** | The output of this task shall be the ETSI Technical Report "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 ".  This document shall specify the set of standards required for fully specifying the provision of Electronic Registered Delivery Services and Electronic Registered Mail as a result of the analysis made by the STF team of:   * The new legal context brought by eIDAS 2.0 to the European Union * The new components defined within eIDAS 2.0 (like the electronic wallet, Electronic Attestations, etc) * The emerging technologies which could impact in one way or the other the provision of ERDS and REM services (as the management of ERDS Evidence, for instance) * Work on close fields like hybrid mail systems   It shall also contain a proposal for updating ETSI TR 119 000 v1.2.1 and ETSI TR 119 001 v1.2.1. |
| **Interactions** | The Reference Body shall be consulted for guidance whenever the STF team shall need this guidance and to ensure the progress of deliverables within the standardisation procedures.  In addition to that the STF team shall also interact with:   * ISO/TC 154/WG 6 * Universal Postal Union * CEN/TC 331/WG 2 * OASIS * EC initiatives related to ERDS provision |
| **Resources required** | This task requires:   * Solid knowledge of the currently existing framework of standards * Knowledge of the legal implications of new eIDAS 2.0 * Knowledge of the technologies supporting new components defined by eIDAS 2.0, and which could impact the provision of ERDS and REM services * Knowledge of technologies implied in the provision of ERDS and REM services * Knowledge of emerging technologies that could impact in the provision of ERDS and REM services   The estimated effort required for this task is 30 man-days |

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| **Task #3** | ***Title: Amend existing ERDS technical specifications*** |
| **Objectives** | This task aims at:   1. Incorporating URLs for new Reason Codes identified during the production of REM Baseline. 2. Including the specification of the semantics and the syntax of the new RelayEvidenceInfo specified during the production of REM Baseline 3. Implementing other minor fixes and amendments that might be identified during the life-time of the project. |
| **Input** | The base documents shall be:   * ETSI EN 319 522-1 v1.1.1, ETSI EN 319 522-2 v1.1.1, and ETSI EN 319 522-3 v1.2.1. * ETSI EN 319 532-4 v1.2.1, which at present specifies new Reason Codes and specifies the RelayEvidenceInfo new ERDS Evidence extension. * Report of the first ETSI Plugtest© on REM Baseline. |
| **Output** | 1. ETSI EN 319 522-2 v1.2.1. This document shall incorporate URLs for new Reason Codes identified during the production of REM Baseline; shall add the specification of the semantics of the new RelayEvidenceInfo ERDS Evidence extension specified during the production of REM Baseline; and shall deal with any other minor issue uncovered during the lifetime of this project 2. ETSI EN 319 522-3 v1.2.1. This document shall add the syntax definition for the new extension RelayEvidence specified during the production of REM Baseline, and deal with any other minor issues that might be identified during the lifetime of the project. |
| **Interactions** | The Reference Body shall be consulted for guidance whenever the STF team shall need this guidance and to ensure the progress of deliverables within the standardisation procedures.  In addition to that, liaisons shall be maintained with the following stakeholders due to their relevance in the standardisation and/or developments in the field:   * ISO/TC 154/WG 6 * Universal Postal Union (UPU) * CEN/TC 331/WG 2 * Digital Europe Program (eDelivery and eID building blocks) |
| **Resources required** | This task requires:   * If possible, the rapporteur of the previous versions of ETSI EN 319 522-1, ETSI EN 319 522-2 and ETSI EN 319 522-3; * Deep knowledge of ERDS Evidence specifications; * If possible, the rapporteur of the previous versions of ETSI TR 119 500   The estimated effort required for this task is 6 man-days |

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| **Task #4** | ***Title: Amend REM technical specifications*** |
| **Objectives** | This task aims at achieving a coherent distribution of the REM Baseline specification, which is included within the current version of ETSI EN 319 532-4 among the whole frame of technical specifications. |
| **Input** | * ETSI EN 319 532-1 v1.1.1 * ETSI EN 319 532-2 v1.1.1 * ETSI EN 319 532-3 v1.2.1 * ETSI EN 319 532-4 v1.2.1 |
| **Output** | ETSI EN 319 532-4 v1.3.1 . This new version will harmonise its contents with the rest of the framework of ERDS and REM standards. More specifically, harmonisation of the specification of the semantics and the syntax of RelayEvidenceInfoERDS Evidence extension and the new Reason Codes identified during the production of REM Baseline, shall be considered and dealt with. |
| **Interactions** | The Reference Body shall be consulted for guidance whenever the STF team shall need this guidance and to ensure the progress of deliverables within the standardisation procedures.  In addition to that, liaisons shall be maintained with the following stakeholders due to their relevance in the standardisation and/or developments in the field:   * ISO/TC 154/WG 6 * Universal Postal Union (UPU), as its S52 specifications relied on the ETSI REM specifications. * CEN/TC 331/WG 2, in order to achieve an harmonization of its specifications of Postal Registered Electronic Mail and Hybrid Mail, with the new versions of ETSI REM. * Digital Europe Program (eDelivery and eID building blocks) |
| **Resources required** | This task requires:   * If possible, the rapporteur of current versions of ETSI EN 319 532 * Deep knowledge of electronic mail-related standards.   The estimated effort required for this task is 3 man-days |

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| **Task #5** | ***Title: Amend TSs for Conformance and Interoperability*** |
| **Objectives** | This task aims at updating:   * The ETSI TSs that specify requirements for testing conformance for ERDS and REM. * The ETSI TSs that define test cases for testing interoperability of provision of ERDS and REM. |
| **Input** | * ETSI TS 119 524-1v1.1.1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 1: Testing conformance" * ETSI TS 119 524-2v1.1.1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 2: Test suites for interoperability testing of Electronic Registered Delivery Service Providers" * ETSI TS 119 534-1v1.1.1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Registered Electronic Mail; Part 1: Testing conformance" * ETSI TS 119 534-2v1.1.1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Registered Electronic Mail; Part 2: Test suites for interoperability testing of providers using same format and transport protocols" |
| **Output** | * ETSI TS 119 524-1v1.2.1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 1: Testing conformance". This new version will include new conformance assertions due to the new requirements derived from the amendments implemented in the EN 319 522 multipart standard. It shall also fix any problem identified in the already existing conformance assertions. * ETSI TS 119 524-2v1.2.1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Electronic Registered Delivery Services; Part 2: Test suites for interoperability testing of Electronic Registered Delivery Service Providers". This new version will incorporate new test cases for testing interoperability for the requirements derived from the amendments implemented in the EN 319 522 multipart standard. It shall also fix any problem in the test cases that are already present within version 1.1.1 * ETSI TS 119 534-1v1.2.1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Registered Electronic Mail; Part 1: Testing conformance". This new version will include new conformance assertions due to the new requirements derived from the amendments implemented in the EN 319 532 multipart standard. It shall also fix any problem identified in the already existing conformance assertions * ETSI TS 119 534-2v1.2.1: "Electronic Signatures and Infrastructures (ESI); Testing Conformance and Interoperability of Registered Electronic Mail; Part 2: Test suites for interoperability testing of providers using same format and transport protocols". This new version will incorporate new test cases for testing interoperability of implementations of REM Baseline as defined for the first ETSI remote Plugtests© on REM Baseline. It shall also fix any problem in the test cases that are already present within version 1.1.1 |
| **Interactions** | The Reference Body shall be consulted for guidance whenever the STF team shall need this guidance and to ensure the progress of deliverables within the standardisation procedures.  In addition to that, the ETSI TSs shall be made available to stakeholders that have proved real interest in the development of tools related to ERDS/REM and/or the provision of this type of service, like:   * Participants in the first ETSI Plugtests© on REM Baseline * Members of Digital Europe Program building block eDelivery * Others that may be identified during the work of the STF team |
| **Resources required** | This task requires:   * If possible, the editor of ETSI TS 119 524 v1.1.1 and ETSI TS 119 534 v1.1.1 * Knowledge of ETSI TS 119 524 v1.1.1 and ETSI TS 119 534 v1.1.1 * Knowledge of OASIS Standard: "Test Assertions Model Version 1.0" * Experience in defining test cases for interoperability and conformance tests   The estimated effort required for this task is 20 man-days |

* 1. **Milestones**

The milestones are computed assuming that the STF would officially start on 16th January 2023.

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Description** | **Cut-Off Date** |
| **A** | Initial Progress Report approved by ETSI ESI TB | *17/4/2023* |
| **B** | Documents to be approved by ETSI ESI TB:   * Final drafts for approval by ETSI ESI TB of new versions of ETSI EN 522-2 and ETSI EN 522-3 * Final draft for approval by ETSI ESI TB of new version of ETSI EN 532-4 * STF Interim Report   Documents to be delivered to ETSI ESI TB   * Early drafts of new versions of ETSI TS 119 524-1, ETSI TS 119 524-2, ETSI TS 119 534-1, and ETSI TS 119 534-2 * Early draft of TR: "Monitoring emerging ERDS/REM Models" * Early draft of TR: "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 " | *31/7/2023* |
| **C** | Documents approved by ETSI ESI TB:   * Final drafts of new versions of ETSI TS 119 524-1, ETSI TS 119 524-2, ETSI TS 119 534-1, and ETSI TS 119 534-2. * Progress Report | *15/11/2023* |
| **D** | Documents published:   * New versions of ETSI TS 119 524-1, ETSI TS 119 524-2, ETSI TS 119 534-1, and ETSI TS 119 534-2   Documents approved by ETSI ESI TB:   * TR: "Monitoring emerging ERDS/REM Models" * TR: "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 " | *22/12/2023* |
| **E** | Documents published:   * TR: "Monitoring emerging ERDS/REM Models" * TR: "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 " * STF Final Report approved by ETSI ESI TB. | *22/01/2024* |

The timeframe of the STF does not include the time required by the ENAP process for approving new versions of ETSI ENs.

The STF members will be required to commit to deal, on an in-kind contribution basis, with any comment (editorial or technical) that during this process might arise, until the final approval and publication of the documents.

* 1. **Task summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Task / Milestone** | **Target Date** | | **Estimated Cost (EUR)** |
| **From** | **To** |
|  | Start of work |  |  |  |
| **T0** | STF Organization | 16/1/2023 | 22/01/2024 | 4 960 |
| **T1** | Impact of emerging technologies on ERDS/REM models | 16/1/2023 | 22/01/2024 | 18 600 |
| **T2** | New ERDS/REM standards framework to eIDAS 2.0 and emerging technologies | 16/1/2023 | 22/01/2024 | 18 600 |
| **T3** | Amend existing ERDS technical specifications | 16/1/2023 | 31/7/2023 | 3 720 |
| **T4** | Amend REM technical specifications | 16/1/2023 | 31/7/2023 | 1 860 |
| **T5** | Amend TSs for Conformance and Interoperability | 15/3/2023 | 22/12/2023 | 12 400 |
| **Milestone A** | Initial Progress Report approved by ETSI ESI TB. |  | 17/4/2023 |  |
| **Milestone B** | Documents to be approved by ETSI ESI TB:   * Final drafts for approval by ETSI ESI TB of new versions of ETSI EN 522-2 and ETSI EN 522-3 * Final draft for approval by ETSI ESI TB of new version of ETSI EN 532-4 * STF Interim Report   Documents to be delivered to ETSI ESI TB   * Early drafts of new versions of ETSI TS 119 524-1, ETSI TS 119 524-2, ETSI TS 119 534-1, and ETSI TS 119 534-2 * Early draft of TR: "Monitoring emerging ERDS/REM Models" * Early draft of TR: "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 " |  | 17/7/2023 |  |
| **Milestone C** | Documents approved by ETSI ESI TB:   * Final drafts of new versions of ETSI TS 119 524-1, ETSI TS 119 524-2, ETSI TS 119 534-1, and ETSI TS 119 534-2. * Progress Report |  | 15/11/2023 |  |
| **Milestone D** | Documents published:   * New versions of ETSI TS 119 524-1, ETSI TS 119 524-2, ETSI TS 119 534-1, and ETSI TS 119 534-2   Documents approved by ETSI ESI TB:   * TR: "Monitoring emerging ERDS/REM Models" * TR: "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 " |  | 22/12/2023 |  |
| **Milestone E** | Documents published:   * TR: "Monitoring emerging ERDS/REM Models" * TR: "New Framework of ERDS/REM standards as a result of the new components brought by eIDAS 2.0 " * STF Final Report approved by ETSI ESI TB. |  | 22/01/2024 |  |
| **Total** | | | | **60 140** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Task/ Mil.** | **J** | **F** | **M** | **A** | **M** | **J** | **J** | **A** | **S** | **O** | **N** | **D** | **J** |  |
| T0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MA |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| MB |  |  |  |  |  |  | X |  |  |  |  |  |  |  |
| MC |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
| MD |  |  |  |  |  |  |  |  |  |  |  | X |  |  |
| ME |  |  |  |  |  |  |  |  |  |  |  |  | X |  |

1. **Expertise required**
   1. **Team structure**

5 participants to ensure the following mix of competences:

|  |  |
| --- | --- |
| **Priority** | **Qualifications and competences** |
| High | Experience in leading and managing ETSI STFs |
| High | Deep knowledge of the framework of the ETSI specifications listed in clause 4.1, as well as of ETSI EN 319 521 and ETSI EN 319 531 |
| High | Deep knowledge of electronic delivery related protocols (like SOAP and RESTFul Webservices Stack, ebXML Messaging, etc.), service discovery and locations protocols, and REM related protocols (SMTP, S/MIME). |
| High | Experience in provision of ERDS/REM services |
| High | Knowledge of emerging technologies and potential new models for ERDS/REM provision |
| High | Experience in drafting European Standards (ETSI EN) |
| High | Experience in defining test cases for interoperability and conformance tests |
| High | Deep knowledge of ISO 27001, ISO 27002, ISO 27005, and ETSI EN 319 401 |
| High | Knowledge of existing and planned EU trust services regulatory constraints |

**Part IV: STF performance evaluation criteria**

1. **Performance Indicators**

|  |  |
| --- | --- |
| ***Select relevant Performance indicators applicable for these ToR (X)*** | |
| **Contribution from ETSI Members to STF work** | |
| *Direct financial contribution (co-funding)* |  |
| *Support to the STF work (e.g., provision of test–beds, organization of workshops, events)* |  |
| *Steering Group meetings (number of meetings / participants / duration)* |  |
| *Number of delegates directly involved in the review of the deliverables* | *X* |
| *Contributions/comments received from the reference Reference Bodies* | *X* |
| *Contributions/comments received from other Reference Bodies* |  |
|  |  |
| **Contribution from the STF to ETSI work** | |
| *Contributions to Reference Body meetings (number of documents / meetings / participants)* | *X* |
| *Contributions to other Reference Bodies* |  |
| *Presentations in workshops, conferences, stakeholder meetings* | *X* |
|  |  |
| **Liaison with other stakeholders** | |
| *Stakeholder participation in the project (category, business area)* |  |
| *Cooperation with other standardization bodies* | *X* |
| *Potential interest of new members to join ETSI* |  |
| *Liaison to identify requirements and raise awareness on ETSI deliverables* | *X* |
| *Comments received on drafts (e.g. on WEB site, mailing lists, etc.)* | *X* |
|  |  |
| **Quality of deliverables** | |
| *Approval of deliverables according to schedule* | *X* |
| *Respect of time scale, with reference to start/end dates in the approved ToR* | *X* |
| *Comments from Quality review by Reference Body* | *X* |
| *Comments from Quality review by ETSI Secretariat* | *X* |
|  |  |

**Time recording**

For reporting purposes, the STF experts shall fill in the time sheet provided by ETSI with the days spent for the performance of the services

During the activity, the STF Leader shall collect the relevant information, as necessary to measure the performance indicators. The result will be presented in the Final Report.

1. **Document history**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Date** | **Author** | **Status** | **Comments** |
| 0.1 | 2022-06-04 | JCC | Draft | Reworked:   * Deliverables and their scopes * Tasks and their budgets * Total budget * Details of travels * Milestones * Calendar * Performance indicators   Missing:   * Rework clauses 1.1 to 1.4 * Rework clause 2. |
| 0.2 | 2022-07-12 | JCC | Draft | Reordered deliverables and tasks  Created Work Items  Reworked clauses 1.1 to 1.4  Reworked clause 2 |
| 0.3 | 2022-07-22 | JCC | Proposed final draft | Added STF title proposal  SRs to TRs  Included numbers of work items  Editorial adjustments  Final grant  Final milestones |
| 0.4 | 2022-07-25 | ETSI Secretariat | Final Draft | Minor editorial changes before Board#139 submission |
| 0.5 | 2022-07-26 | JCC | Final Draft | Added document reference |
| 0.6 | 2022-08-19 | ETSI Secretariat | Final draft | Addition of supporting member as a result of the TC ESI remote consensus |
| 0.7 | 2022-10-18 | ETSI Secretariat | Final | Update before CL publication |

Annex I Response to the Request for Proposals  
CfE – STF 645 (REFERENCE BODY TC ESI) Deadline: 08/12/2022

**If you are an ETSI Member \***

**ETSI membership status (Indicate your status):**

 Full

 Associate

 Observer

**If you are not an ETSI Member \***

Please indicate:

**Full name of the ETSI member supporting the application (list of ETSI members on etsi.org):**

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Official contact name of the ETSI member supporting the application:**

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Note: A formal confirmation of the support from the Official contact is required (e.g. by e-mail sent to STFLINK@etsi.org) and an “ETSI Member Support Letter” will be required if you are selected.*

|  |  |  |  |  |
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| **Contractor information \*** | | | | |
|  | | | | |
| **Contractor name \*:**  *Indicate the Company/Organization Name* | |  | | |
|  | | | | |
| **Contact person for the technical aspects** | | **Contact person for Decision on ETSI financial offer to this project (if any)** | | |
| Title |  | Title |  | |
| First name |  | First name |  | |
| Last name |  | Last name |  | |
| Role |  | Role |  | |
| e-mail |  | e-mail |  | |
| Phone |  | Phone |  | |
|  | | | | |
|  | | **Yes** | | **No** |
| Do you or any employee of your Company/Organization hold an elected or appointed position in the Reference Body requesting the STF 645 creation? | | o  Indicate in which position:  ----------------------------------- | | o |
| **If you are self-employed candidate:**  Do you currently have other contracts in progress with ETSI? | | o | | o |

All fields marked with an asterix (\*) are mandatory

**1.1 Introduction**

A short presentation of the technical structure responsible for this activity, e.g.:

* Business area, number of employees, link to WEB site,
* Department(s)/team(s)/experts in charge of the technical activities related to this Project,
* Reference to products/services of your Company/Organization or supporting Member to which the standards developed by this Project will apply,
* Motivation for your Company/Organization or supporting Member to participate in this Project.

**1.2 Proposed approach**

**Proposed contribution to tasks & related cost**

Identify the tasks to which your Company/Organization is proposing to contribute by filling-in the table below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tasks\_No** | **Tasks\_Description** | **Max\_Budget\_Allocated\_in\_**  **Euro** | **Amount\_in\_Euro\_**  **(mandatory)** | **%\_of\_whole\_Task\_**  **(mandatory)** |
| 00 | STF Organization | 4960 | . | . |
| 01 | Impact of emerging technologies on ERDS/REM models | 18600 | . | . |
| 02 | New ERDS/REM standards framework to eIDAS 2.0 and emerging technologies | 18600 | . | . |
| 03 | Amend existing ERDS technical specifications | 3720 | . | . |
| 04 | Amend REM technical specifications | 1860 | . | . |
| 05 | Amend TSs for Conformance and Interoperability | 12400 | . | . |
| **Total** |  | **60140** |  |  |

**Amount in Euro (mandatory)**: Indicate the price offered for your contribution to the task(s)

**% of whole task (mandatory)**: Indicate to which percentage of the execution of the whole task your offer corresponds

Provide a description of the proposed approach, competences, reference to related activities:

* Explain which part of the task is corresponding to the requested percentage that your Company/Organization will handle,
* Explain the scope that your Company/Organization will cover,
* Explain your approach to the management of the quality and,
* Explain your approach to the management of the risks and their mitigation,
* Describe and justify the proposed costs to achieve this project objectives.

Annex II Terms and Conditions  
CfE – STF 645 (REFERENCE BODY TC ESI) Deadline: 08/12/2022

**2.1 Submission of Proposals**

All proposals in response to this CfE shall be submitted before the deadline indicated in thisCollective Letter, using exclusively the WEB application on the ETSI Portal at the following address: <https://portal.etsi.org/cfe>.

Proposals shall be composed of Curriculum Vitae of the proposed service providers’ personnel and the Annex I of this CfE duly filled-out.

Proposals that will be partial or incomplete at the deadline will not be accepted.

The Terms and Conditions in this Annex will apply.

**2.2 Modification and Withdrawal of Proposals**

Applicants may, without prejudice to themselves, modify or withdraw their proposal by written request, provided that the request is received by ETSI prior to the due date and time, at the address to which their proposal was submitted. The applicant may submit a new proposal provided that such new proposal is received prior to the deadline for responding which is specified in this Collective Letter.

**2.3 Assessment of Proposals**

The ETSI Director-General, in consultation with the Reference Body Chairman, is responsible for the selection of the service providers that will be contracted to perform this Project work. The ETSI Director-General and the Reference Body Chairman may be assisted by a Selection Panel to assess the applications received and make the final decision.

As per article 1.10.4 of the ETSI Directives, the Director-General may discard proposals that could be identified as creating potential conflict of interest.

The ETSI Secretariat will only communicate to the applicants the result of the selection (accepted or not accepted). Should applicants need more information on the rationale for the selection, they must address a formal request to the ETSI Director-General.

The following evaluation criteria will be applied to all proposals, in order of priority:

* Evidence that the applicant has the necessary structure and expertise to ensure delivery
* Reference to current or previous activities in the specific technical domain of this project
* Critical review of the most efficient way to achieve the objectives in this Project ToR
* Effective proposed approach/methodology for the execution of the tasks
* Implementation schedule
* Clear pricing policy

Compliance with the first two (2) criteria is mandatory.

Proposals that are not considered compliant with these criteria will be discarded.

Priority will be given to technical quality of the proposals. Pricing considerations will be taken into account to ensure that the best value for money is achieved. Compatibility with the maximum budget allocated to this Project will be verified before placing a Service Contract.

Following the assessment process, ETSI reserves the right to grant contracts to other than the cheapest proposals, to accept or reject any offer completely or in part, or to reject all proposals, without providing the reasons. If no offer is accepted, ETSI may decide to abandon the work or proceed in any other manner ETSI may select.

**2.4 IPR and confidentiality Agreements**

The information provided in this CfE, as well as the fact that the applicant has received the CfE, is considered confidential and protected under copyright laws. The applicant may not discuss, share, or use the information in this CfE for any purpose other than the response to this CfE.

ETSI will not disclose the content of any proposals to other applicants or any other party, with the exception of the persons involved in the assessment process described in §2.3 above.

However, ETSI reserves the right to make use of the information provided in this proposal to improve this project definition for the purpose of this CfE or any other manner in which ETSI may decide to proceed to select the service providers.

If successful, the applicant will be required to sign a Service Contract, which includes IPR and Confidentiality clauses aligned with the relevant policies in the ETSI Directives.

**2.5 Preparation cost**

ETSI will not be responsible for any costs or expenses that the applicant may incur in preparing and/or submitting the proposal.

**2.6 Service Contract**

A Service Contract will be proposed to the applicants that will be selected to perform the work.

Details on the Terms and Conditions of this contract can be found on the ETSI Portal, at the following address: <https://portal.etsi.org/STF/STFs/Contracts.aspx>

1. Regulation (EU) No 910/2014 ​​of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC [↑](#footnote-ref-1)
2. Recital 2 of the eIDAS Regulation. [↑](#footnote-ref-2)
3. Recital 6 of the eIDAS Regulation. [↑](#footnote-ref-3)
4. Recital 4 of the eIDAS Regulation. [↑](#footnote-ref-4)
5. Proposal for a Regulation of the European Parliament and of the Council amending Regulation (EU) No 910/2014 as regards establishing a framework for a European Digital IdentityCOM(2021) 281 final – Available at <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52021PC0281> [↑](#footnote-ref-5)
6. Figures from the website of AGID, the Italian supervision authority for the eIDAS Regulation <https://www.agid.gov.it/it/piattaforme/posta-elettronica-certificata/statistiche-utilizzo-pec> [↑](#footnote-ref-6)
7. See https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/About+us [↑](#footnote-ref-7)