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| ***STF534 - Progress Report for ETSI*** |
| **Presented to ETSI meeting** | **SmartM2M#48** |  | **Author:** | Dr. Laura Daniele |
|   |   |   | **Date:** | 04/12/2018 |
| **Doc ref** |  |   | **Version** |  0.1 |
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| **STF** | **534** |   | **STF leader** | Dr. Laura Daniele |
| **TB/WG** | **SmartM2M** |   | **TB responsible** | Dr. Enrico Scarrone, Mr. Francisco Da Silva |
|  |  |   | **STF Assistant** | Mr. Thierry Comont |
|  |  |  |  |  |  |
| **STF title:** | SAREF extensions |
|  |  |  |  |  |  |
| **Milestone** | **C** |  | **Status** | **Covers the period until (cut-off date)** | 30/11/2018 |
|  **Template** |
| **Objective** | Approval of Progress report#3 by TC Smart M2M Achievement of stable drafts TS  |
| **Achieved** | Yes |  |
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| **Remarks** | According to the STF Work Plan, Milestone C is due to 30/11/2018 for approval at SmartM2M#48. As SmartM2M#48 will take place on 11-13 Dec 2018, we expect milestone C to be discussed for approval on 11-13 Dec 2018 (otherwise it should be approved by remote consensus, but this would take longer than waiting for SmartM2M#48). |
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| **Achieved dates** |  |  |  |  |  |
| **Template** | **Draft report** | **TB approval** | **ETSI approval** |  |  |
| 05/11/2018 |  04/12/2018 |   |   |   |   |
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# Executive summary

STF 534 started on the 5th of October 2017.

The contractual Milestone A has been achieved in February 2018 at SmartM2M#45:

A.1) Approval of Progress report#1

A.2) Early draft DTR/SmartM2M-1033506 (Requirements for Smart Cities)

A.3) Early draft DTR/SmartM2M-1033507 (Requirements for Smart Industry & Manufacturing)

A.4) Early draft DTR/SmartM2M-1033511 (Requirements for Smart AgriFood)

The contractual Milestone B has been achieved in June 2018 SmartM2M#46:

B.1) Progress report#2 for approval

B.2) Final draft DTR/SmartM2M-1033506 (Requirements for Smart Cities) for review

B.3) Final draft DTR/SmartM2M-1033507 (Requirements for Smart Industry & Manufacturing) for review

B.4) Final draft DTR/SmartM2M-1033511 (Requirements for Smart AgriFood) for review

B.5) Early draft DTS/SmartM2M-103410-4-SRF4CITY

B.6) Early draft DTS/SmartM2M-103410-5-SRF4INMA

B.7) Early draft DTS/SmartM2M-103410-4-SRF4AGRI

Since then, the STF 534 team worked on “Task 3: SAREF extension development” in order to produce a stable draft of the SAREF4CITY, SAREF4INMA and SAREF4AGRI Technical Specifications.

We presented an update of the progresses in Task 3 at SmartM2M#47 in October 2018.

The contractual Milestone C is planned to be achieved in December 2018 at SmartM2M#48:

C.1) Progress report#3 for approval

C.2) Stable draft DTS/SmartM2M-103410-4-SRF4CITY

C.3) Stable draft DTS/SmartM2M-103410-5-SRF4INMA

C.4) Stable draft DTS/SmartM2M-103410-4-SRF4AGRI

We confirm the current STF Work Plan and schedule. We observe a different maturity level in the stable drafts (being SAREF4CITY the most complete, followed by SAREF4INMA and SAREF4AGRI). Therefore, in the coming period, more effort will be dedicated to SAREF4AGRI and SAREF4INMA, while SAREF4CITY can be considered close to final. We do not foresee any deviation in the schedule of the final drafts of the extensions, planned to be approved by SmartM2M#49 in March 2019.

Finally, there have been no changes in the STF team in the past period, we only added more people to work on the different domains (both from TNO and UPM). We do not foresee changes in the period until the next report.

# Introduction

Since the last progress report, the STF 534 has focused on creating the SAREF extensions for Smart Cities (SAREF4CITY), Smart Industry & Manufacturing (SAREF4INMA) and Smart AgriFood (SAREF4AGRI).

In particular, a stakeholders workshop “Towards interoperability and harmonization of Smart City models with SAREF4CITY” has been organized in Brussels at the DG Connect premises to validate the SAREF4CITY extension and receive feedback from the most relevant stakeholders.

These activities resulted in the following stable drafts (uploaded as contributions to SmartM2M#48):

* DTS/SmartM2M-103410-4-SRF4CITY
* DTS/SmartM2M-103410-5-SRF4INMA
* DTS/SmartM2M-103410-4-SRF4AGRI

# Contractual milestone

The contractual Milestone C has been achieved by uploading the following contributions to SmartM2M#48 (11-13 Dec 2018):

* Progress report#3 for approval
* Stable draft DTS/SmartM2M-103410-4-SRF4CITY
* Stable draft DTS/SmartM2M-103410-5-SRF4INMA
* Stable draft DTS/SmartM2M-103410-4-SRF4AGRI

We confirm the current STF Work Plan and schedule. We only observe a different maturity level in the stable drafts (being SAREF4CITY the most complete, followed by SAREF4INMA and SAREF4AGRI). Therefore, in the coming period, more effort will be dedicated to SAREF4AGRI and SAREF4INMA, while SAREF4CITY can be considered close to final. We do not foresee any deviation in the schedule of the final drafts of the extensions, planned to be approved by SmartM2M#49 in March 2019.

# Progress of the work

The work has progressed as expected with respect to the current work plan targets, resulting into the stable drafts of the three Technical Specifications on the SAREF4CITY, SARF4INMA and SAREF4AGRI extensions. The final draft of these three Technical Specifications is expected for approval at SmartM2M#49 on 5-7 March 2019.

# Assessment of technical risk, difficulties encountered/expected, unresolved issues

SAREF4CITY is the most complete extension at this moment and has received a lot of attention from various, relevant stakeholders in the domain, especially because of the direct support that the STF 534 has received by the European Commission (Unit Smart Mobility and Living at DG Connect). The EC has been of great help to establish a close interaction with initiatives such as:

* AIOTI
* OASC (Open & Agile Smart Cities)
* OGC (Open Geospatial Consortium)
* H2020 Large Scale Pilots and other H2020 projects
	+ ESPRESSO (Smart Cities)
	+ Synchronicity LSP

The EC has also directly supported the organization of two validation workshops for SAREF4CITY:

* <https://ec.europa.eu/digital-single-market/en/news/saref4city-validation-workshop>
* <https://ec.europa.eu/digital-single-market/en/news/workshop-towards-interoperability-and-harmonization-smart-city-models-saref4city>

The other extensions, SAREF4INMA and SAREF4AGRI, are also progressing, but we acknowledge less direct involvement of relevant stakeholders in these domains, because this involvement implies considerable effort that the STF 534 is not able to offer (because of limited budget). As a consequence, we observe a different maturity level among the extensions, being SAREF4CITY the most complete, followed by SAREF4INMA and SAREF4AGRI. In the coming period, most of the STF 534 effort will be dedicated to finalize SAREF4AGRI and SAREF4INMA. All the final drafts (SAREF4CITY, SAREF4INMA and SAREF4AGRI) are expected to be delivered according to the plan. However, we do not see as realistic the possibility to organize dedicated validation workshops with stakeholders also for SAREF4INMA and SAREF4AGRI (as it was done for SAREF4CITY) within the STF 534 timeframe and budget. Therefore, we observe that it could be beneficial to organize a final dissemination event for stakeholders (with the support of ETSI and/or the EC and/or AIOTI) once the STF is finished and the TSs are published.

# Proposed changes in the STF work plan

We confirm the current STF Work Plan and schedule, no changes are required at this moment in time.

# Resources requirements

At this moment in time we do not foresee the need for additional resources, and we do not foresee switches of resources between budget elements.

# Changes in the STF Team

There have been no changes in the STF team in the past period, we only added more people to work on the different domains (both from TNO and UPM). We do not foresee changes in the period until the next report.

# Meetings/events attended on behalf of the STF

Since the last progress report in June 2018, the STF leader and STF team attended the following events on behalf of the STF:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date** | **Place** | **TB/Orga** | **Event description** | **Reason to attend** | **Expert(s)** |
| 29 June 2018 | online | AIOTI | AIOTI/WG13 Smart Buildings & Architecture meeting | Invited talk on SAREF roadmap and in particular SAREF4ENER and SAREF4BLDG extensions at AIOTI/WG13 call Smart Buildings & Architecture | Laura Daniele (TNO)and María Poveda-Villalón (UPM) |
| 8-10 Oct 2018 | Sophia Antipolis | ETSI | SmartM2M#47 | Update on STF 534 activities. | Laura Daniele (TNO) and Raúl García Castro (UPM)- online |
| 22 Nov 2018 | Brussels | European Commission | SAREF4CITY validation workshop at the European Commission | Validate SAREF4CITY with stakeholders | Raúl García Castro (UPM), María Poveda-Villalón (UPM), Laura Daniele (TNO) |
| 23-26 Oct 2018 | Sophia Antipolis | ETSI | ETSI IoT week 2018 | 1) Presentation on SAREF roadmap and Update on STF 534 activities.2) Presentation on SAREF4CITY in a dedicated session. | Laura Daniele (TNO) |
| 11-13 Dec 2018 | Sophia Antipolis | ETSI | SmartM2M#48 | Update on STF 534 activities. Approval of Progress report#3.Achievement of Stable Draft TSs (D4, D5 and D6) | Laura Daniele (TNO) |

# Meetings/events planned to be attended

The STF leader and STF team plan to attend the following events on behalf of the STF until the next milestone:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date** | **Place** | **TB/Orga** | **Event description** | **Reason to attend** | **Expert(s)** |
| 5-7 March 2019 | Sophia Antipolis | ETSI | SmartM2M#49 | Update on STF 534 activities. Approval of Progress report#3.Achievement of Stable Draft TSs (D4, D5 and D6) | Laura Daniele (TNO) or Raúl García Castro (UPM) |
| 17 January | Brussels | OASC | Connected Smart Cities Conference 2019 | Present SAREF4CITY status and development | María Poveda Villalón (UPM) |
|  |  |  |  |  |  |
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# STF communications, presentations, promotion, inside and outside ETSI, WEB pages etc

The STF team (María Poveda-Villalón, Raúl García Castro and Laura Daniele) attended and presented the results of the STF at the stakeholders workshop “Towards interoperability and harmonization of Smart City models with SAREF4CITY”, organized in Brussels at the DG Connect premises, to validate the SAREF4CITY extension and receive feedback from the most relevant stakeholders:

<https://ec.europa.eu/digital-single-market/en/news/workshop-towards-interoperability-and-harmonization-smart-city-models-saref4city>

# Technical advice required from the reference Technical Body

No technical advice required from the reference Technical Body.

# Status of the deliverables

The following deliverables are available as contributions to SmartM2M#48 at <https://portal.etsi.org/Contribution.aspx?MeetingId=34888>:

* Progress report#3 for approval
* Stable draft DTS/SmartM2M-103410-4-SRF4CITY
* Stable draft DTS/SmartM2M-103410-5-SRF4INMA
* Stable draft DTS/SmartM2M-103410-4-SRF4AGRI

# Next report

The next report (final report) is scheduled for 15/02/2019. Please note that next SmartM2M meeting where the next report can be discussed is SmartM2M#49, planned on 5-7 March 2019.