**Specialist Task Force 626:**

# **Smart Identity for Smart interface in digital ecosystem (User-Centric Approach)**

# **Who we are:**

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# **What we do:**

STF 626 will produce two Technical Reports defining the Smart Identity (as a User Clone) for the User-Centric Approach and providing a PoC (Proof of Concept) demonstrating the feasibility of this User Clone in different chosen Use cases.

The work to be performed is:

1. The definition of a “User Digital Clone” based on the information model defined in the documents produced by STF 543 and published. The Smart Identity has a sufficient knowledge for the user interface to anticipate and respond to the user's needs and expectations, with a more in-depth analysis of the digital ecosystem.

STF 626 will produce

* + Analysis of the user profiles including Sociological and psychological context, non-functional requirements, digital maturity, usage evolution and user profile and context for different use cases.
  + New technologies for smart identity (technology trends and system approach)
  + Knowledge database (ACIFO Model – Informational model-, data categorization, data collection and data processing)
  + User digital clone (definition and Smart ID Model)

1. Based on the definition of the User digital clone, STF 626 will propose a Proof of Concept (PoC) for identified use cases. The Proof of Concept will be presented through a short movie, giving a fine way to disseminate the results of the STF 626.

# **Why we do it:**

During the last years SC User Group has published several documents (ETSI Guides and Technical Reports) corresponding to the whole project called “User-Centric approach in Digital Ecosystem). The documents define and detail a global 5-dimension Model called “ACIFO” (Architectural, Communication, Informational, functional, organisation)

The present STF 626 addresses the Information Model: it defines the different Profiles (User, device, service). The information covers the whole ecosystem (equipment, network, applications, services, HMIs, User, etc.) from the offer to the resource's availability for Users, Providers and any other partners.

With the introduction of artificial intelligence (AI), the information model is enriched with additional data, collected every day and which will refine the user's knowledge (for example data from sensors, connected objects in their environment, ... ). It is this learning that will provide a better understanding of the needs and a contextualization of the compound services.

The purpose of STF 626 is to define a smart identity as a clone of the user and to build the first brick of the Smart Interface (in the User centric approach). Smart Identity includes a detailled knowledge for the user interface to anticipate and respond to the user's needs and expectations, with a more in-depth analysis of the digital ecosystem. The Smart Interface is intended to offer a solution based on "smart data", independent of the applications, thus making it possible to contextualize the services offered to better meet the needs and expectations of the user.



The results that will be produced by STF 626 are

* The definition of a “User Digital Clone” based on the information model defined in the documents produced by STF 543 and published. The Smart Identity has a sufficient knowledge for the user interface to anticipate and respond to the user's needs and expectations, with a more in-depth analysis of the digital ecosystem.
* Based on the definition of the User digital clone, STF 626 will propose a Proof of Concept (PoC) for identified use cases. The Proof of Concept will be presented through a short movie, giving a fine way to disseminate the results of the STF 626.

Particular attention will be paid to identifying all actors and users with disabilities and older users and their specific needs, in order to ease the usage of terminals/applications/services, anywhere and at any time. “Smart Interface” wishes to address these issues. This will be achieved by analyzing the selected use case and understanding what adaptations are needed, what components may be needed to support this, and doing a first proof of concept (PoC) (demonstrator) based on these initial results The work to be done by the STF 626 is based first on the results of STF 543 where, starting from the analysis of relevant use cases of the digital ecosystem, we have defined an architectural model by placing the user at the centre of the system (User Centric).

New techniques such as AI, ML and Big Data statistics allow automation that is vital to succeed in this digital transformation and adaptation.

This is why it is necessary to define the last link in the chain, the HMI, a smart interface to aim for an implementation, a "zero touch" end-to-end orchestration.

We also need a PoC not only to show the feasibility of this smart interface, but also to show the positioning and postures of the user.

The report should start with a synopsis of the overall content, highlighting the most important and strategic elements that should be noted. This summary should not exceed half-a-page and shall be presented in a concise manner, preferably with bullet-points, with reference to the specific clauses of the report for any greater details. This is also the place where to request any changes to schedule, resource usage and deliverable type.

# **How we do it:**

STF 626 is rather similar to the team which produced the different documents of the project “User-Centric Approach in digital Ecosystem” and ACIFO Model. So, all the experts have a fine knowledge of the needs for the definition and the production of the User Clone , based on the informational model defined in EG 203 602 “User Group; User Centric Approach: Guidance for users; Best practices to interact in the Digital Ecosystem”.

The experts are working individually on the different topics corresponding to their expertise but the STF leader organizes remote meetings every two or three weeks to reinforce the cooperation and collaboration of the experts.

# **Deliverables:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Deliv.** | **Work Item code**  **Standard number** | **Working title**  **Scope** | **Expected date for publication** |
| D1 | DTR/USER-0052 | Working title: Smart Interface; Smart Identity: User digital clone  Scope: Analysis of the user requirements, the study of new technologies contribution, and digital clone definition defining the Smart Identity. | August 2022 |
| D2 | DTR/USER-0053 | Working title: Smart interface for digital ecosystem; Smart Identity: A Proof of Concept | February 2023 |

**Time plan:** The following table defines the main dates for the time plan:

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Description** | **Date** |
| **M0** | Start of STF 626 | 15/01/2022 |
| **MA** | Analysis of the ID information from the user profile | 15/05/2022 |
|  | D1: Early draft available for review |  |
| **MB** | Definition of ID Information Model | 30/08/2022 |
|  | Draft TR (D1-WI 052) Publication of D1 |  |
| **MC** | Definition and design of PoC | 15/10/2022 |
| **MD** | Implementation of PoC | 15/01/2023 |
|  | Draft TR (D2-WI 053) | 15/01/2023 |
| **ME** | Deliverable D2 published, Final Report  STF closed | 28/02/2023 |

# **How to contact us:**

If additional information is needed, please mail to

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STF 626 will report on the progress at all the SC User Meetings