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**TRUSTID**

University of Cyprus Multiplier Event

**Intellectual Output 4 - Knowledge Repository containing Training Webinars, Guides of Best Practices, Integration Guidelines, Training Materials and Forum Discussions on how to Adopt and Deploy Continuous Student Identity Management Solutions in HEIs**

Dr. Argyris Constantinides, University of Cyprus



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# Intellectual Output 4 (IO4)

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## Knowledge Repository

- Contains: Training Webinars, Guides of Best Practices, Integration Guidelines, Training Materials and Forum Discussions on how to Adopt and Deploy Continuous Student Identity Management Solutions in HEIs.
- *Lead:* University of Patras
- *Participating Partners:*
  - *Institute of Systems and Robotics (ISR-UC)*
  - Cognitive UX GmbH
  - University of Cyprus



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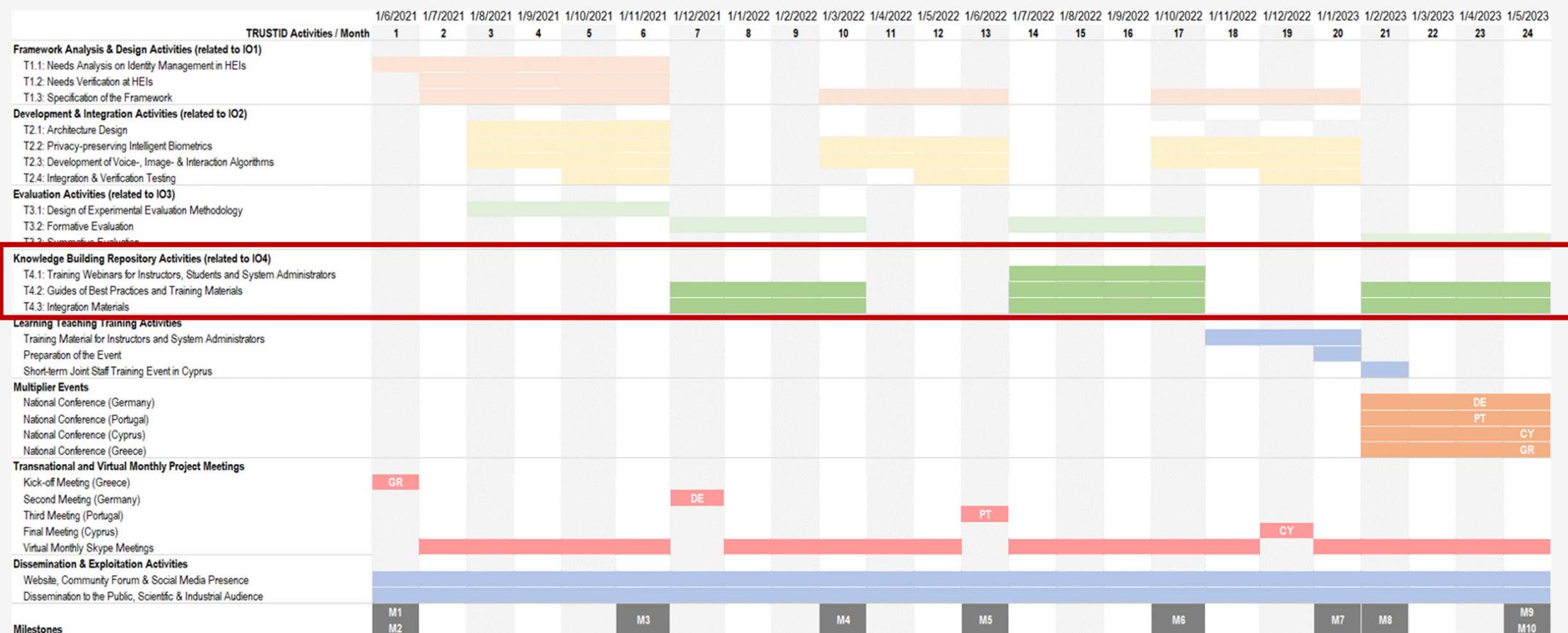
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# Intellectual Output 4 (IO4)

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## IO4 – Objectives and Activities

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- Series of tasks for producing a thorough **knowledge repository** to serve as **training and learning material** based on the outcomes of the project, and as a dissemination tool.
- **Conduct webinars** for the training of system administrators and instructors, which will serve as a training, evaluation and dissemination tool of the project
- **Design of guides describing best practices** on how HEIs may adopt continuous student identification methods and techniques in online learning environments.
- **Design of system integration guidelines** on how system administrators of HEIs may utilize the developed API of TRUSTID to integrate the solution into their existing learning management environments and systems.



# IO4 - Tasks

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## - T4.1: Training Webinars ← July 2022 – Feb 2023

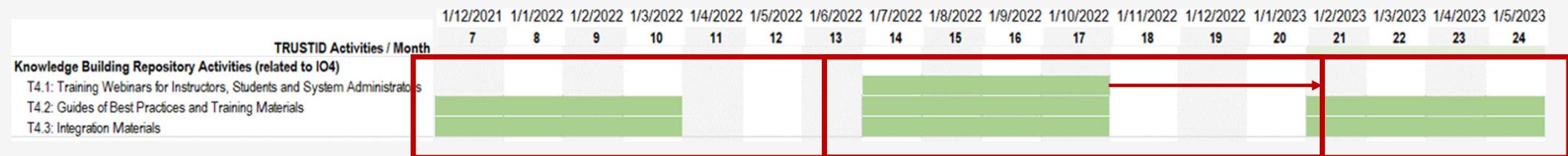
- *Lead: Institute of Systems and Robotics (ISR-UC)*
- *Participating: University of Patras, University of Cyprus, Cognitive UX GmbH*

## - T4.2: Best Practice Guides ← Until EoP (May 2023)

- *Lead: Institute of Systems and Robotics (ISR-UC)*
- *Participating: University of Patras, University of Cyprus, Cognitive UX GmbH*

## - T4.3: System Integration Guidelines (through an Application Programming Interface)

- *Lead: Cognitive UX GmbH*
- *Participating: University of Patras, University of Cyprus, Institute of Systems and Robotics (ISR-UC)*



## T4.1: Training Webinars

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- The **Training Webinars** consisted of focused sessions to demonstrate the TRUSTID technology from a **user** perspective (instructors) and from a **technical/integration** perspective (system administrators).
- Designed to inform HEIs stakeholders on **why, when and how** to adopt continuous student identification.
- **Four webinars** were conducted: one by **each partner organization**.



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# T4.1: Training Webinars -- Activities

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**LIVE WEBINAR**

**BEYOND PASSWORDS:**  
**BIOMETRIC IDENTIFICATION & AUTHENTICATION**  
**BEST PRACTICES**

Join our hybrid webinar to learn about biometric identification and authentication best practices

**Monday,**  
**5 December, 2022**  
14:00 - 15:00 pm (EET)

**Online &**  
University of Cyprus,  
ΘΕΕ01 - 202

**Speaker**  
**Taoufik Sousak**

**Webinar 1**

**Webinar 2**

**Webinar 3**

**Webinar 4**

**FREE REGISTRATION**

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CUX: Mon, Dec-5 2022, *Beyond Passwords: Biometric Identification & Authentication Best Practices* [Taoufik Sousak]



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# T4.1: Training Webinars -- Activities

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WEBINAR

Live Webinar

## ONLINE STUDENT IDENTIFICATION WITH FACE RECOGNITION

Are you interested in learning more about the latest developments in facial recognition technology and its applications in authentication? Then you won't want to miss our upcoming webinar on face-based identification.

We will dive deep into the technical aspects of facial recognition, its accuracy and reliability. We'll also explore real-world examples of how it's being used by Higher Education Institutions and the potential benefits it can bring.

Don't miss this chance to stay ahead of the curve in the field of authentication!

Speaker  
José Faria  
Institute of Systems and Robotics, University of Coimbra (ISR-UC)

Thursday, 19th of January 2023, 14:30-15:30 (Western European Time)

Online Event

TrustID

**ISR-UC:** Tue, Jan-19 2023, *Online Student Authentication with Face Recognition* [José Faria and Pedro Martins]

# T4.1: Training Webinars -- Activities

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Live Webinar

## WEBINAR

### STRONG AUTHENTICATION – BEST PRACTICES AND BIOMETRICS

We are happy to invite you to join us for a webinar on Strong Authentication Best Practices and Biometrics.

In this webinar, we will define the term of authentication and strong authentication. We will present the major biometric authentication methods and explore the latest advancements in biometric identification and authentication technologies.

Speaker  
George Thomopoulos  
IT at Dept. of Electrical and Computer Engineering, University of Patras

Thursday, 19th of January 2023, 15.00-16.00 (EET)

Online &  
In-person at the University of Patras,  
Dept. of Electrical and Computer Engineering Conference Room

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**UPAT:** Thu, Jan-19 2022, *Strong Authentication – Best Practices and Biometrics* [George Thomopoulos]



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# T4.1: Training Webinars -- Activities

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Live Webinar

## WEBINAR

### TOWARDS INTELLIGENT AND PRIVACY-PRESERVING BIOMETRICS FOR STUDENT IDENTITY MANAGEMENT IN HIGHER EDUCATION

Make sure you don't miss another interesting webinar of the TRUSTID project!

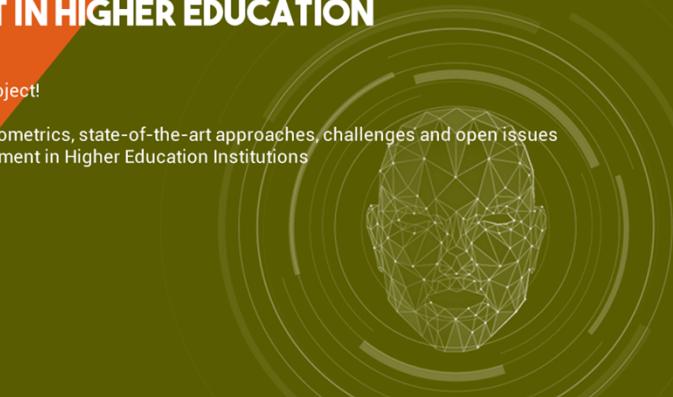
Argyris Constantinides will be discussing various topics on intelligent biometrics, state-of-the-art approaches, challenges and open issues on using biometric technologies for continuous student identity management in Higher Education Institutions

Feel free to join us live online

Speaker  
Argyris Constantinides  
Research Scientist, University of Cyprus

Friday, 3rd of February 2023, 14.30-15.30 (EET)

Online &  
In-person at the University of Cyprus



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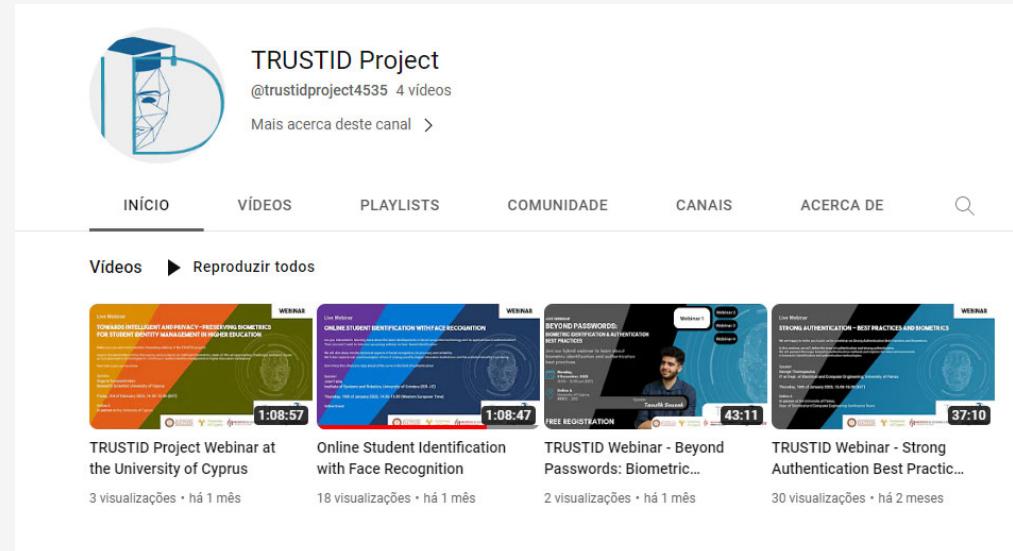
**UCY:** Fri, Feb-3 2023, *Towards Intelligent and Privacy-Preserving Biometrics for Student Identity Management in Higher Education* [Argyris Constantinides]

## T4.1: Training Webinars

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- **Evaluation and piloting tool** to improve the system design based on **feedback received after the webinars**.
- **Dissemination tool** through **live video recorded sessions**, which are **publicly available**.



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## T4.2: Best Practice Guides

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- Innovative and practical design guidelines, recommendations/policies to provide useful indications on how current practices in identity management and online learning systems can be improved.
- Guidelines will be made publicly available (e.g., through publications and open repositories) to be used by interested researchers and practitioners as a stepping-stone for further exploitation.
- What are we producing?
  - Format: Documents and presentations (e.g., pdfs, pptx)
  - Practical design guidelines
  - Recommendations
  - Policies
  - Experimental results

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## T4.2: Best Practice Guides – Stage 1



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## T4.2: Best Practice Guides – Actions Done in Stage 1

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### Deployment of Knowledge Repository v1

- *TRUSTID Webpage with links for Wiki pages hosted on Slite.  
Available at: <https://trustid-project.eu/kr.php>  
including Educational, Training and Course Material.*

### Deployment of the TRUSTID Community Forum v1

*Based on WordPress. It was available at: <http://forum.trustid-project.eu/>  
Barebones version with “Developers” and “General” Discussion Topics.*

### TRUSTID GitHub Open Source Code Repository

*Available at: <https://github.com/cognitiveux/trustid>*



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## T4.2: Best Practice Guides – Stage 2



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# T4.2: Best Practice Guides – Actions Done in Stage 2

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## Deployment of Knowledge Repository v2

*TRUSTID Webpage with new Wiki pages hosted on Slite*

- *Integration guides and reports*
- *Study Design, Evaluation Methodologies and POC 1 Evaluation Results*
- *Voice-based speaker recognition*
- *Update of previous wiki pages (e.g. Image-based face recognition)*
- *INFOGRAPHIC: User acceptance of online examination monitoring*

The screenshot shows the TRUSTID Knowledge Repository page. At the top, there is a navigation bar with links: WELCOME, ABOUT TRUSTID, CONSORTIUM, VIDEOS, INTELLECTUAL OUTPUTS, NEWS, and PUBLICATIONS. Below the navigation bar, the word "TRUSTID" is prominently displayed. Underneath "TRUSTID", there is a section titled "Knowledge Repository". On the left side of this section, there is a search bar with the placeholder "Search" and a list of categories and sub-categories. The categories include: TRUSTID Knowledge Repository, Study Design, Evaluation Methodologies and POC 1 Evaluation Results, Consortium Partners, and User Needs & User Feedback. The "Study Design, Evaluation Methodologies and POC 1 Evaluation Results" category is expanded, showing sub-categories like "INFOGRAPHIC: User acceptance of online examination m...", "Voice-based speaker recognition", and "Consortium Partners". The "Consortium Partners" category is also expanded, listing partners such as Cognitive UX, University of Cyprus, University of Patras, Institute of Systems and Robotics (ISR-UC), Ethical Guidelines and Data Privacy, TRUSTID Solution Design, and User Needs & User Feedback. The "User Needs & User Feedback" category is expanded, showing sub-categories like "INFOGRAPHIC: Covid-19 Impact on Higher Education" and "INFOGRAPHIC: Interviews with Stakeholders & Identified ...". The "INFOGRAPHIC: Interviews with Stakeholders & Identified ..." category is also expanded, showing sub-categories like "Image-based face recognition". On the right side of the screenshot, there is a sidebar with a blue header containing the text "INFOGRAPHIC: User acceptance of online examination monitoring". Below the header, there is a section titled "GETTING FEEDBACK ON User Acceptance" with a sub-section titled "PRE EXISTING EXPERIENCE". A horizontal bar chart titled "PRE EXISTING EXPERIENCE" is shown, with the y-axis labeled from 1 to 5 and the x-axis labeled from 0 to 30. The chart shows that most participants rated their experience as "NOT AT ALL" (1) or "NOT AT ALL" (2). The chart has a red arrow pointing towards the top right corner.

## INFOGRAPHIC: User acceptance of online examination monitoring

GETTING FEEDBACK ON  
**User Acceptance**

A part of the evaluation of the first proof of concept was to investigate the user acceptance of being monitored during critical online academic activities

Experience Level	Count
1 NOT AT ALL	~25
2 NOT AT ALL	~15
3 NOT AT ALL	~10
4 NOT AT ALL	~5
5 VERY COMFORTABLE	~5

PRE EXISTING EXPERIENCE

As a background question, participants were first asked how comfortable and experienced they are with using an authentication and identification system for online examinations



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# T4.2: Best Practice Guides – Actions Done in Stage 2

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## TRUSTID Project Brochures

**What is TrustID?**  
In TRUSTID, we envision to design, develop and evaluate a multi-tier continuous user identification framework bootstrapped to HEIs' contexts that will consist of state-of-the-art intelligent image, voice and interaction data processing.

**FUNDING**  
The project is funded by the European Commission (Erasmus+ 2020) and IKY with a budget of €291,310.

**Learn More**  
Visit our website: <https://www.trustid-project.eu>

**Also On:**

**Expected Results**

- Validate a Framework for HEIs' Continuous Student Identity Management**  
The TRUSTID framework will be both theoretical and practical and will scaffold different HEI stakeholders to sustain credibility of online education learning activities
- Implementation of an open-source software toolkit**  
The aforementioned framework will be supported by an open-source toolkit that will be designed and developed during the project
- Evaluation and Validation Reports in the context of three case-studies at different HEIs**  
Evaluation reports assessing the project results in general, aiming at the provision of recommendations for the implementation of continuous identity management of online learning and teaching activities at the partner organizations, based on the evaluation outcomes
- Knowledge Building Online Community and Repository**  
An online repository that will support knowledge building through guides with best practices for different methods and tools to apply continuous user identification for online activities of HEIs



**How can I help?**  
To evaluate the second Proof of Concept, we will run user studies where participants can download the software and take it for a test drive! At the end you will be asked about your experience. We want to hear from you so we can improve our solution.

**Learn More**  
Visit our website: <https://www.trustid-project.eu>

**Sign up:**

**What is TrustID?**  
In TRUSTID, we envision to design, develop and evaluate a multi-tier continuous user identification framework bootstrapped to HEIs' contexts that will consist of state-of-the-art intelligent image, voice and interaction data processing.

**Also On:**

**University of Patras** **ISR INSTITUTO DE SISTEMAS E ROBÓTICA** **cognitiveux**

## What is TRUSTID

## User Recruitment

# T4.2: Best Practice Guides – Actions Done in Stage 2

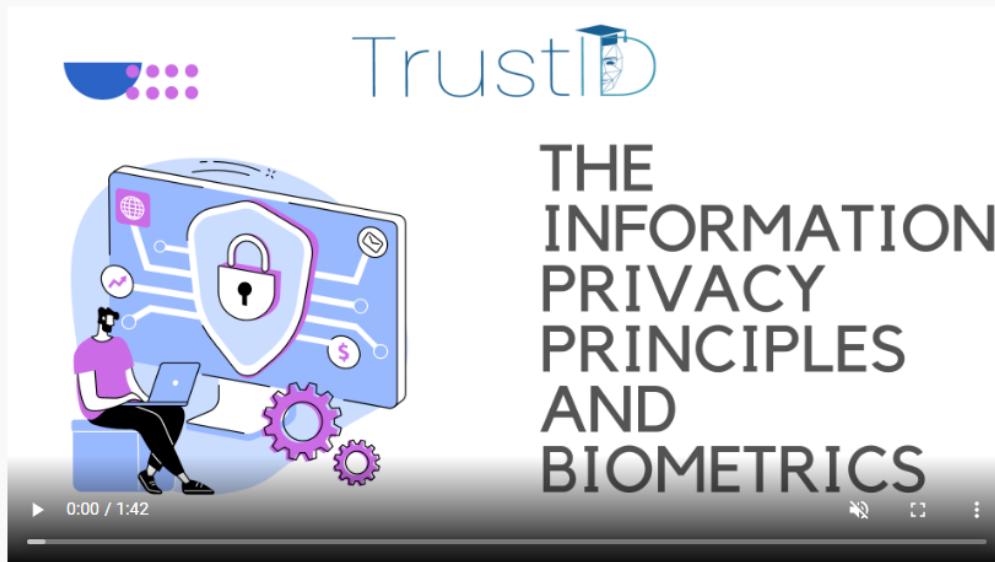
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## Best Practice Videos

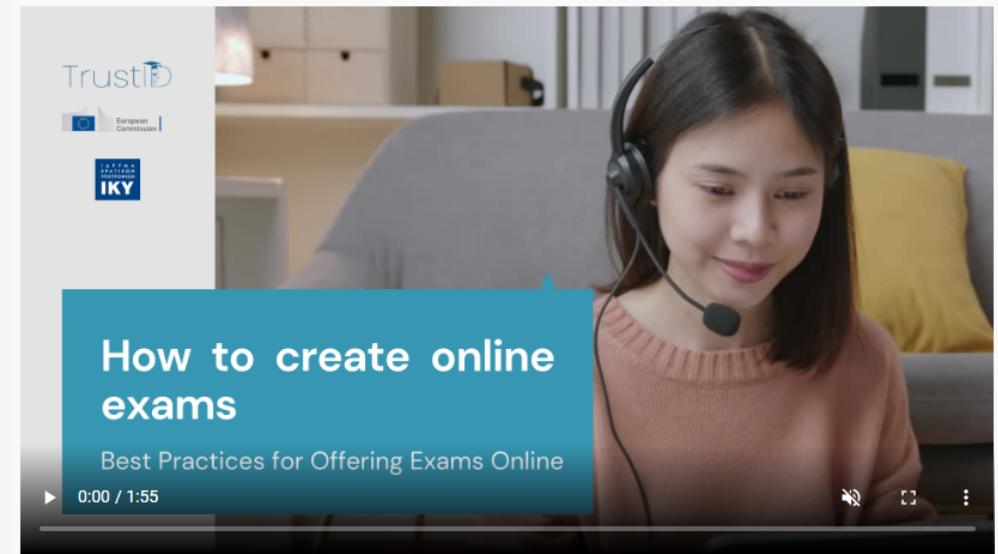
### The Information Privacy Principles and Biometrics

Watch this best practices video about privacy preservation when it comes to biometrics



### Online Examination Best Practices

Best practices and extra tips when it comes to online evaluation activities.



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# T4.2: Best Practice Guides – Actions Done in Stage 2

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## TRUSTID Community Forum v2

*Embedded in the TRUSTID website*

*Based on tribe, a customizable community platform for businesses*

The screenshot shows the TRUSTID Community Forum v2 interface. At the top, there is a navigation bar with links for Home, Members, Spaces, General (which is selected), and Technical Discussions. Below the navigation bar, there is a search bar and a sign-in/sign-up button. The main content area features a banner with three images: a smartphone, a person typing on a keyboard, and a wallet. Below the banner, there is a section titled "General" with a house icon. The "Feed" tab is selected, showing a post from user "Stylianos Sofokleous" (2 months ago) with the text "Excellent idea but...". The post has 1 like. Below the post, there is a comment from user "Loukas Papalazarou". On the right side, there is a sidebar titled "About" with statistics: 9 members, 5 posts, and a creation date of 2 months ago.



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## T4.2: Best Practice Guides – Stage 3



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# T4.2: Best Practice Guides – Actions Done in Stage 3

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## Webinars Webpage

*Embedded in the TRUSTID website*

ABOUT TRUSTID   CONSORTIUM   INTELLECTUAL OUTPUTS   WEBINARS   LEARNING TEACHING TRAINING (LTTA)   NEWS   PUBLICATIONS

### Webinars

**TRUSTID WEBINAR - BEYOND PASSWORDS: BIOMETRIC IDENTIFICATION & AUTHENTICATION BEST PRACTICES**

Mr. Taoufik Sousak from Cognitive UX GmbH gave a speech at the first TRUSTID webinar discussing various important topics on biometric identification and authentication best practices.

The screenshot shows a video player with a thumbnail of a man speaking. The video details are: Monday, 5 December, 2022, 14:00 - 15:00 pm (EET), Online & University of Cyprus, ΘΕΕ01 - 202. The speaker is Taoufik Sousak. The video player includes a play button, a 'Ver no YouTube' link, and logos for TrustID, University of Patras, University of Cyprus, and Institute of Systems and Robotics.

## T4.2: Best Practice Guides – Ongoing Actions

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### TRUSTID Community Forum v3

*Embedded in the TRUSTID website: <https://trustid-project.eu/community.php>*

*Based on Wix, a cloud-based website development platform*

Categories All Posts My Posts

Search

TrustID Forum

Welcome! Join a conversation!

Create New Post

General Discussion  
Share stories, ideas, pictures and more!

Questions & Answers  
Get answers and share knowledge.

New Posts

Demetra Hadjicosti 4d  
new  
General Discussion

Demetra Hadjicosti Mar 18  
Welcome to the Forum  
General Discussion

Demetra Hadjicosti Mar 18  
Introduce yourself  
General Discussion



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## T4.2: Best Practice Guides – Ongoing + Planned Actions

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- Update **wiki pages** alongside project developments/new results (e.g., PoC 2 outcomes, validation reports, evaluation of results and scientific papers)
- **Dedicated pages** to the LTTA and Multiplier Events with recording links
- Additional **Best Practice Videos** and eventually Infographics
- Reinvigorate the Discussion **Forum** (news, discussion points, etc.)
- **PoC 3** Final System information (update GitHub – PoC3 documentation, integration guidelines, experimental results, etc.)
- **TRUSTID Closure** Documentation, Reports, Project Evaluation

## T4.3: System Integration Guidelines (through an API)

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- Design **system integration guidelines** based on the developed **Application Programming Interfaces** developed as part of IO2 for exposing the intelligent continuous student identification mechanisms and user models to third-party software
- The API will allow developers to subscribe and get an API key that will be used to authorize HTTP(S) requests for using the developed algorithms and user models in their applications



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## T4.3: System Integration Guidelines

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- **Target group:** System administrators
- What needs to be produced
  - Integration guidelines allow admins to integrate and customize TRUSTID
    - *Format: Documents (e.g., pdfs)*
    - Guide on **how to install TRUSTID** Windows and MacOS (*on final system release*)
    - Guide on **how to train the models** for the face recognition mechanisms (*on final system release*)
    - Guide on to **integrate TRUSTID** in existing LMS systems (*on final system release*)
  - Document of Web API (continuously being updated along the development implemented)
    - *Format: Online documentation and demonstrator*
    - Interactive demonstrator on how to call and use the Web API of TRUSTID
    - Online documentation with information about the end points of the TRUSTID system



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## T4.3: System Integration Guidelines

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- Create system integration guidelines enabling system administrators to easily integrate and customize TRUSTID to their needs and requirements
- Infrastructure for Web-based Application Programming Interfaces (API) has been implemented
  - Interactive demonstrator on how to call and use the Web API of TRUSTID
  - Online documentation with information about the end points of the TRUSTID system



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# Web API – Interactive Demo

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**TRUSTID API**

The endpoints for interacting with the TRUSTID server

Terms of service  
Contact the developer  
BSD License

Schemes: **HTTP**

Django Login Authorize

Filter by tag

**instructor**

- POST** /instructor/add\_exam instructor\_add\_exam\_create
- POST** /instructor/enroll\_students instructor\_enroll\_students\_create
- GET** /instructor/list\_exam instructor\_list\_exam\_list
- POST** /instructor/update\_exam\_details instructor\_update\_exam\_details\_create

**login**

- POST** /login login\_create

**monitoring**

- POST** /monitoring monitoring\_create

**refresh\_token**

- POST** /refresh\_token refresh\_token\_create

**register\_user**

- POST** /register\_user register\_user\_create

**student**

- POST** /student/identification student\_identification\_create
- GET** /student/list\_exam student\_list\_exam\_list

**trustid\_version**

- GET** /trustid\_version trustid\_version\_list

**update\_exam\_condition**

- POST** /update\_exam\_condition update\_exam\_condition\_create

## login

**POST** /login

Creates a JSON Web Token if the provided credentials are correct

**Parameters**

Name	Description
<b>data</b> <small>required</small>	<small>(body)</small>  Edit Value   Model  <pre>{     "email": "string",     "password": "string" }</pre>

**Cancel**

Parameter content type: application/json

**Execute**

**Responses**

Response content type: application/json

Code	Description
201	JSON Web Token has been created successfully. The value is returned in <code>resource_obj</code> .

**Example Value | Model**

```
{  
    "message": "string",  
    "resource_name": "string",  
    "resource_obj": {}  
}
```

# Web API – Documentation

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Authentication

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**instructor**

**instructor\_add\_exam\_create**

The view that allows instructors to add examinations

AUTHORIZATIONS: Bearer

REQUEST BODY SCHEMA: application/json

additional\_material boolean (Additional material)

duration integer (Duration in minutes) [ 0 .. 9223372036854776000 ]

exam\_type string (Exam type)  
Enum: "Oral" "Written"

privacy\_policy string (Privacy policy)  
non-empty

scheduled\_date string <date-time> (Scheduled date)

**Responses**

200 Success

RESPONSE SCHEMA: application/json

message string  
A general message description

resource\_name string  
The name of the resource

POST /instructor/add\_exam

Request samples

Payload

application/json

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```
{  
    "additional_material": true,  
    "duration": 0,  
    "exam_type": "Oral",  
    "privacy_policy": "string",  
    "scheduled_date": "2021-12-13T13:28:55Z"  
}
```

Response samples

200 400 401 403 404 405 415 500

application/json

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```
{  
    "message": "string",  
    "resource_name": "string"  
}
```

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TrustID

# Thank you!

Dr. Argyris Constantinides, University of Cyprus



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