Minutiae Template
Interoperability Testing

MIT project for FP6 IST Call 4

Co-funded by the European Commission within the Sixth Framework Programme (STREP)
Project no.: IST-2005-027351
Why the MIT project?

• EC has specific requirements to use fingerprints for future visa, passports and travel documents.

• testing and improving interoperability of finger minutiae biometrics.

• Use of minutiae based templates instead of finger images enables solutions to be privacy enhancing, memory and computational time saving.

• There are problems to interoperability which act as a barrier realising full potential of biometrics.

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MIT Objectives

- Work with EC to provide for testing and certification define criteria for interoperability testing
- define criteria for interoperability testing
- develop a database of fingerprint images
- develop a test bed for fingerprint minutiae interoperability
- incorporate an improvement step
- provide for the testing of interoperability of future systems

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Scientific Objectives of MIT

- Conduct research to deliver encoding algorithms able to provide interoperability
- Deliver a framework and a certification process which allow future interoperability
- Independent certification laboratory will conduct such tests

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List of Participants

- NPL (National Physical Laboratory)
- Cogent Systems
- Daon
- EBF (European Biometrics Forum)
- Motorola
- NEC
- Sagem Défense Sécurité
- Fraunhofer

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Work Packages

Objectives of WP1:
Activity Type: Management Activity

- liaising with the EC throughout the project.
- ensure timely delivery of deliverables
- drive the organisation of technical aspects of the workshops
- co-ordinate relationship with external bodies
- develop internal/external communication systems
- organise and co-ordinate deliverables, meetings and workshops.

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Work Packages 2-6

Activity Type: RTD/ Innovation

Objectives include:

• WP2: develop a database of fingerprint images
• WP3: define criteria for interoperability testing
• WP4: develop a test bed for fingerprint minutiae interoperability
• WP5: execute interoperability tests incorporating an improvement step where interoperability of the tested systems can be improved
• WP6: provide for the testing of interoperability of future systems
MIT Vs MINEX2004

- MINEX provides very interesting results concerning minutiae interoperability issues
- MIT addresses the European market
- MINEX concerns M1 records, and MIT ISO minutiae records
- MIT provides a Yes/No interoperability certification, with a tool enabling recurrent certifications
- MIT goal: operational cases.
Results

The MIT project will provide two results session

1\textsuperscript{st} results session - half way through the project at 7 months and

2\textsuperscript{nd} results session - when the project is completed at 14 months.
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