



COMPUTER
NETWORKS



PHYSICAL
FACILITIES



APPLICATIONS



MANUFACTURING
AUTOMATION
SYSTEMS



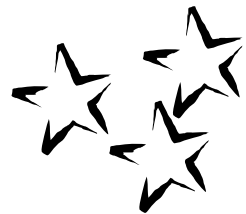
TIME &
ATTENDANCE
SYSTEMS

IDENTITY ASSURANCE MANAGEMENT™

Standards Applicability

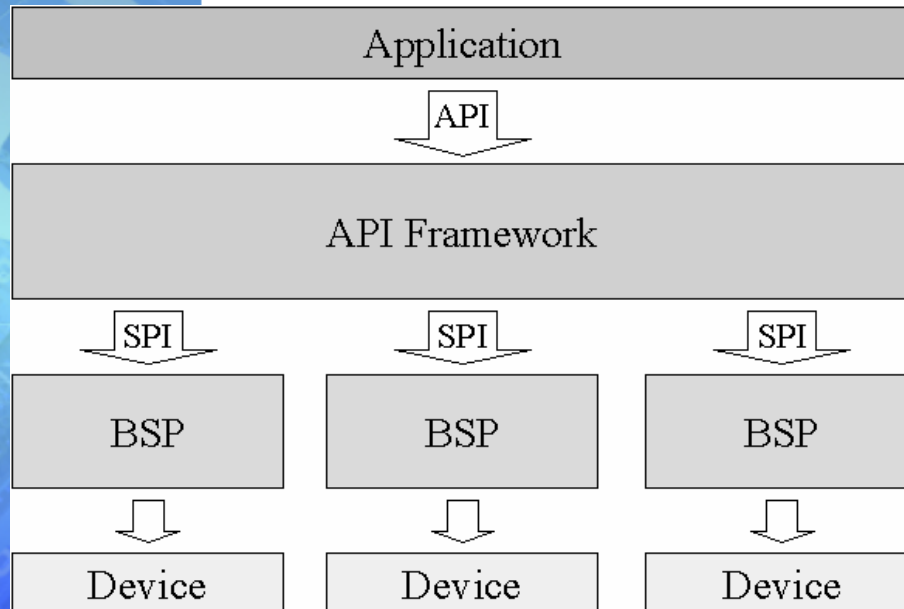
BioAPI

C. Tilton





The BioAPI Specification defines an open system standard application program interface (API) that allows software applications to communicate with a broad range of biometric technologies in a common way.



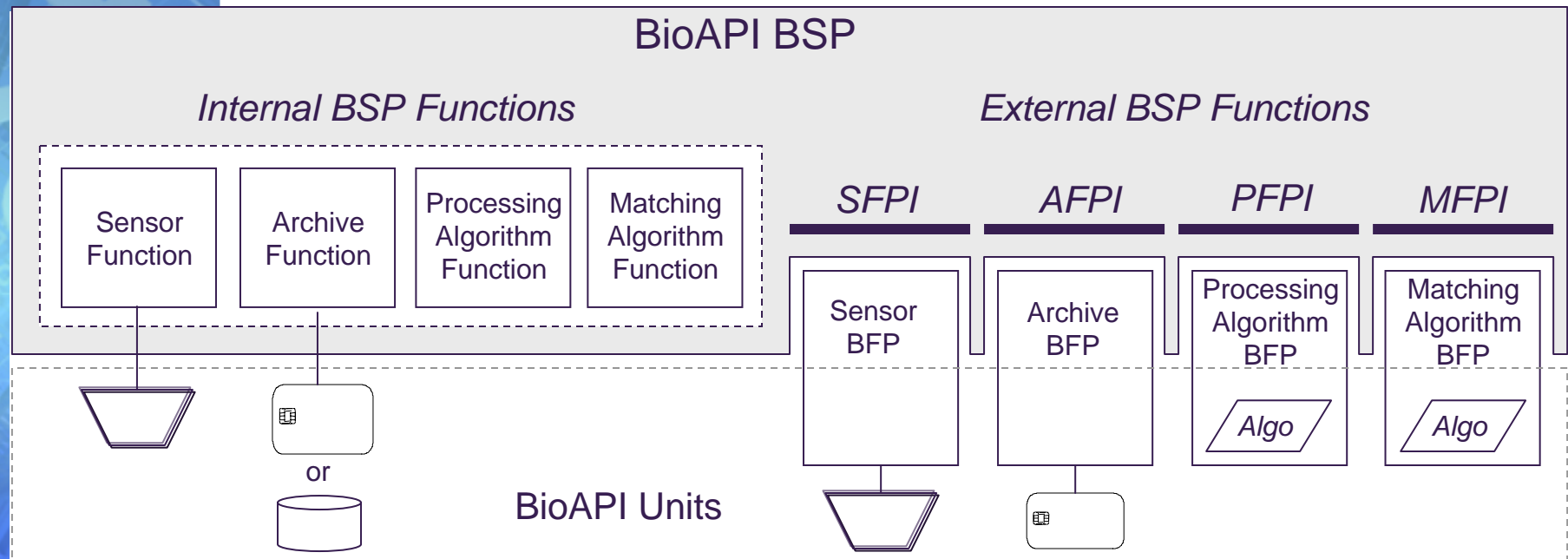
- ✓ Simple application interfaces,
- ✓ Standard access methods to biometric functions, algorithms, and devices,
- ✓ Robust biometric data management and storage,
- ✓ Standard methods of managing biometric data and technology types, and
- ✓ Support for biometric verification and identification in distributed computing environments.

Version 1.1

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ISO/IEC 19784-1

- Same basic architecture as Ver 1.1
- 2.0 implements a series of “simplifications and enhancements”
- Expected to be approved 4Q05/1Q06



Version 2.0

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Scope

- Application and service provider software interfaces (API & (API & SPI)
- Interworking of components from different vendors
 - Multiple applications, BSPs, & units
- Applicable to a broad range of biometric technology types
- Applicable to a wide variety of biometrically enabled applications
- “This International Standard is not required (and should normally not be referenced) when a complete biometric system is being procured from a single vendor, particularly particularly if the addition or interchange of biometric hardware, services, or applications is not a feature of that that biometric system. (Such systems are sometimes referred to as "embedded systems".) Standardisation of of such systems is not in the scope of this International Standard.”

Applicability

- Where does BioAPI apply –
 - Enrollment stations, Verification stations
 - Matching servers
 - Wherever you may need to use >1 technology OR upgrade, replace, or substitute technology in the future future
- Where BioAPI may not be a good fit –
 - Within a search/match engine
 - Within an embedded microcontroller-based door reader unit
- Applies to applications & BSPs

BioAPI Lite

- New project in SC37 (19784-3)
- Scope still a little fuzzy, but generally intended for embedded system environments
 - Other than general computing platforms
- Reduced functionality
- Minimal overhead
- Possible target environments
 - Physical access door readers
 - Personal devices
 - Remote controls
 - Authentication tokens

Assessment

- Identify all interfaces to biometric technologies technologies
 - Determine to which of these BioAPI applies
 - Part of systems engineering process (requirements allocation)
- Availability of compliant products & tools
 - Over 40 BioAPI products announced to date
 - A number of dev tools available (7-10)
- Conformance testing
 - Methodology standard & CTS in progress
- Use of application profiles
 - Bound the options

Adoption

- What does it mean?
- Willingness of vendors to build products to the spec
 - BSPs, applications, tools, middleware
- Customer demand
 - Reflected in procurements
- References in other standards/documents
- Incorporation into larger architectures
- Visibility

BioAPI Consortium

- General Meeting
 - 5:30 – 7:30 PM
 - Regency Ballroom B
- Open to members and any interested parties
- If you want to learn more about the status and and plans for BioAPI, you are invited to attend

Today!

Thanks!

Catherine J. Tilton
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