

# ISO/IEC 30106-2:2020 (E)

## Information technology — Object oriented BioAPI — Part 2: Java implementation

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      - 6.3.2.3 void presetIdentifyPopulation (int unitID, IdentifyPopulation population)
      - 6.3.2.4 boolean verify (int unitID, int maxFMRrequested, BIR processedBIR, BIR referenceTemplate, Vector<ResultOptions> options)
      - 6.3.2.5 boolean verify (int unitID, int maxFMRrequested, BIR processedBIR, BIR referenceTemplate, Vector<BIR> auxiliaryBIRs, Vector<ResultOptions> options)
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  - 8.1 Interface BSP
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      - 8.1.3.4 byte[] controlUnit (int unitID, int controlCode, byte[] inputData)
      - 8.1.3.5 UUID enrol (UnitList unitList, int numberOfPresentations, int numberOfAttempts, int numberOfTransactions, int qualityThreshold, int maxFmrRequested, int timeout, Vector<Purpose> purposes, BiometricSubtype biometricSubtype, RegistryID outputFormat, byte[] additionalData, Vector<ResultOptions> resultOptions)
      - 8.1.3.6 UUID enrol (UnitList unitList, int numberOfPresentations, int numberOfAttempts, int numberOfTransactions, int qualityThreshold, int maxFmrRequested, int maxFmrRequestedForUpdate, UUID referenceId, int timeout, Vector<Purpose> purposes, BiometricSubtype biometricSubtype, RegistryID outputFormat, byte[] additionalData, Vector<ResultOptions> resultOptions)
      - 8.1.3.7 UUID enrol (UnitList unitList, Vector<BIR> capturedBirs, int maxFmrRequested, int timeout, Vector<Purpose> purposes, BiometricSubtype biometricSubtype, RegistryID outputFormat, byte[] additionalData, Vector<ResultOptions> resultOptions)
      - 8.1.3.8 UUID enrol (UnitList unitList, Vector<BIR> capturedBirs, int maxFmrRequested, int maxFmrRequestedForUpdate, UUID referenceId, int timeout, Vector<Purpose> purposes, BiometricSubtype biometricSubtype, RegistryID outputFormat, byte[] additionalData, Vector<ResultOptions> resultOptions)
      - 8.1.3.9 byte[] getACBioInstance(int unitID)
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      - 8.1.3.11 BSPSchema getBSPSchema()
      - 8.1.3.12 Vector<Candidate> identifyAggregated (UnitList unitList, int maxFMRrequested, BiometricSubtype biometricSubtype, boolean binning, int maxResults, int timeout, Vector<ResultOptions> options)
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- 8.1.3.14 **Vector<Candidate> identifyAggregated (UnitList unitList, Vector<BIR> inputBIRs, int maxFMRrequested, BiometricSubtype biometricSubtype, boolean binning, int maxResults, int timeout, Vector<ResultOptions> options)**
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- 8.1.3.17 **Vector<UnitSchema> queryUnits ()**
- 8.1.3.18 **Vector<UnitSchema> queryUnits (Vector<UnitCategoryType> unitCategories)**
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- 8.1.3.20 **void subscribeToGUIEvents (GUISelectEventListener guiSelectEventListener, GUIStateEventListener guiStateEventListener, GUIProgressEventListener guiProgressEventListener)**
- 8.1.3.21 **void unsubscribeFromGUIEvents ()**
- 8.1.3.22 **boolean verifyAggregated (UnitList unitList, int maxFMRrequested, BIR referenceTemplate, BiometricSubtype subtype, int timeout, Vector<ResultOptions> options)**
- 8.1.3.23 **boolean verifyAggregated (UnitList unitList, int maxFMRrequested, UUID referenceKey, BiometricSubtype subtype, int timeout, Vector<ResultOptions> options)**
- 8.1.3.24 **boolean verifyAggregated (UnitList unitList, int maxFMRrequested, BIR inputBIR, BIR referenceTemplate, BiometricSubtype subtype, int Timeout, Vector<ResultOptions> options)**
- 8.1.3.25 **boolean verifyAggregated (UnitList unitList, int maxFMRrequested, BIR inputBIR, UUID referenceKey, BiometricSubtype subtype, int timeout, Vector<ResultOptions> options)**

## 9 Framework level

- 9.1 **Interface ComponentRegistry**
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    - 9.1.2.2 **void installBSP (BSPSchema bspSchema, boolean update)**
    - 9.1.2.3 **void uninstallBFP (UUID bfpUUID)**
    - 9.1.2.4 **void uninstallBSP (UUID bspUUID)**
- 9.2 **Interface framework**
  - 9.2.1 **Description**
  - 9.2.2 **Inherited interfaces**
  - 9.2.3 **Method summary**
    - 9.2.3.1 **void bspLoad (UUID bspID, BFPEventListener bfpEventListener, BFPGUIProgressListener bfpGUIProgressListener, BFPEnumerationListener bfpEnumerationListener, String context)**
    - 9.2.3.2 **void bspUnload (UUID bspID, String context)**
    - 9.2.3.3 **void enableEventNotifications (UUID bspID, Vector<EventKind> events)**
    - 9.2.3.4 **Vector<BFPSchema> enumBFPs ()**
    - 9.2.3.5 **Vector<BSPSchema> enumBSPs ()**
    - 9.2.3.6 **FrameworkSchema getFrameworkSchema()**
    - 9.2.3.7 **void init (String version)**
    - 9.2.3.8 **Vector<BFPListElement> queryBFPs (UUID bspUUID)**
    - 9.2.3.9 **Vector<UnitSchema> queryUnits (UUID bspUUID)**
    - 9.2.3.10 **void terminate ()**

## 10 Application interaction

- 10.1 **class BioAPIException extends Exception**
  - 10.1.1 **Description**
  - 10.1.2 **Constructor summary**
    - 10.1.2.1 **public BioAPIException (Facility source, int code)**
    - 10.1.2.2 **public BioAPIException (Facility source, int code, String message)**
    - 10.1.2.3 **public BioAPIException (Facility source, int code, String message, Exception cause)**
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- 10.2.2.1.1.1 boolean guiProgressEventCallback (UUID bspUUID, int unitID, GUIOperation operation, GUISuboperation suboperation, Purpose purpose, GUIMoment moment, byte suboperationProgress, Vector<GUIBitmap> bitmaps, String text, GUIResponse response)
- 10.2.2.2 Interface GUISelectEventListener
- 10.2.2.2.1 Method summary
- 10.2.2.2.1.1 boolean guiSelectEventCallback (UUID bspUUID, int unitID, GUIEnrolType enrolType, GUIOperation operation, GUIMoment moment, int resultCode, int maxNumEnrolSamples, Vector<BiometricSubtype> selectableInstances, Vector<BiometricSubtype> selectedInstances, Vector<BiometricSubtype> capturedInstances, final String text, GUIResponse response)
- 10.2.2.3 Interface GUIStateEventListener
- 10.2.2.3.1 Method summary
- 10.2.2.3.1.1 boolean guiStateEventCallback (UUID bspUUID, int unitID, GUIOperation operation, GUISuboperation suboperation, Purpose purpose, GUIMoment moment, int resultCode, int enrolSampleIndex, Vector<GUIBitmap> bitmaps, String text, GUIResponse response, int enrolSampleIndexToRecapture)

## 11 BSP Interaction

- 11.1 Interface BSPEventListener
- 11.1.1 Method summary
- 11.1.1.1 boolean bspEventCallback (UUID bfpUUID, int unitID, UnitSchema unitSchema, EventKind event)

## 12 BFP Interaction

- 12.1 Interface BFPEnumerationListener
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- 12.2 Interface BFPEventListener
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- 12.3 Interface BFPGUIProgressEventListener
- 12.3.1 Method summary
- 12.3.1.1 void bfpGUIProgressEventCallback (int unitID, String context, Vector<GUIBitmap> bitmaps, byte response)

## Annex A (informative) Java requirements

### Annex B (informative) Calling sequence examples and sample code

- B.1 Reference implementation
- B.2 API architecture