



Federal Office  
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Technical Guideline TR-03122-2

# Conformance Test Specification for BSI TR-03121 Biometrics for Public Sector Applications

Part 2: Test Cases for High Level Biometric Services (HLBS)

Version 6.0



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# 1 Testcases for Servers (SRV)

This chapter contains testcases for implementations of a HLBS server.

## 1.1 Testcases for All Services (ALL)

This section contains testcases that are applicable to HLBS servers implementing any service (ALL).

### 1.1.1 Testcases for Operation acquireService

**Test Case ID: TC-HLBS-SRV-ALL-acquireService-001**

<i>Scope</i>	Testing acquireService operation for a HLBS Server with a valid service, device, sessionHandle combination.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A hardware-device that is compatible with the service to be tested is connected and available, i.e. not currently in use.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description*

Step	Description / Expected Result
1	<p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'acquireService' is sent. The following parameters are provided:</li> </ul>

Key	Value/Property
serviceID	The serviceID is valid w.r.t. the service that should be tested
deviceID	The deviceID corresponds to the device according to the precondition (i.e. valid and available)
sessionHandle	my_SessionHandle

**Table 1.2** Parameters for the operation 'acquireService'.

*Expected Result:*

- A HLBS response-message for the operation 'acquireService' is received.
- The received hlbs message contains the value my\_SessionHandle at key sessionHandle.

**Table 1.1** Test Case ID: TC-HLBS-SRV-ALL-acquireService-001

**Test Case ID: TC-HLBS-SRV-ALL-acquireService-002**

<i>Scope</i>	Testing the acquireService operation for a HLBS Server with a valid service, device combination where no sessionHandle is given.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A hardware-device that is compatible with the service to be tested is connected and available, i.e. not currently in use.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

- |   |   |
|---|---|
| 1 | <p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'acquireService' is sent. The following parameters are provided:</li> </ul> |
|---|---|

Key	Value/Property
serviceID	The serviceID is valid w.r.t. the service that should be tested
deviceID	The deviceID is corresponding to the device according to the precondition (i.e. valid and available)

**Table 1.4** Parameters for the operation 'acquireService'.*Expected Result:*

- A HLBS response-message for the operation 'acquireService' is received.
- The received hlbs message contains a value at key sessionHandle that has the following property:  
sessionHandle is non-empty

**Table 1.3** Test Case ID: TC-HLBS-SRV-ALL-acquireService-002**Test Case ID: TC-HLBS-SRV-ALL-acquireService-003**

<i>Scope</i>	Testing the acquireService operation for a HLBS Server with a device that is not available.
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**Test Case ID: TC-HLBS-SRV-ALL-acquireService-003**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A hardware-device that is compatible with the service to be tested is connected but is currently unavailable, i.e. the service-device combination was already acquired.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'acquireService' is sent. The following parameters are provided:

Key	Value/Property
serviceID	The serviceID is valid w.r.t. the service that should be tested
deviceID	The deviceID corresponds to the device according to the precondition (i.e. valid but unavailable)

**Table 1.6** Parameters for the operation 'acquireService'.*Expected Result:*

- A HLBS fault-message 'AlreadyInUse' for the operation 'acquireService' is received.
- The received hlbs message contains a value at key serviceID that has the following property:  
The serviceID matches the serviceID that was requested
- The received hlbs message contains a value at key deviceID that has the following property:  
The deviceID matches the deviceID that was requested

**Table 1.5** Test Case ID: TC-HLBS-SRV-ALL-acquireService-003**Test Case ID: TC-HLBS-SRV-ALL-acquireService-004**

<i>Scope</i>	Testing the acquireService operation for a HLBS Server with a service that is unknown to the server.
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**Test Case ID: TC-HLBS-SRV-ALL-acquireService-004**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A hardware-device that is compatible with the service to be tested is connected and available, i.e. not currently in use.</li> <li>• A serviceID is given that is unknown to the server, i.e. does not correspond to a service the server offers.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'acquireService' is sent. The following parameters are provided:

Key	Value/Property
serviceID	The serviceID is unknown to the server according to the precondition
deviceID	The deviceID corresponds to the device according to the precondition (i.e. valid and available)

**Table 1.8** Parameters for the operation 'acquireService'.*Expected Result:*

- A HLBS fault-message 'InvalidServiceId' for the operation 'acquireService' is received.
- The received hlbs message contains a value at key id that has the following property:

The value of "id" is equal to the value of serviceID that was requested.

**Table 1.7** Test Case ID: TC-HLBS-SRV-ALL-acquireService-004**Test Case ID: TC-HLBS-SRV-ALL-acquireService-005**

<i>Scope</i>	Testing the acquireService operation for a HLBS Server with a deviceID that is unknown to the server.
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**Test Case ID: TC-HLBS-SRV-ALL-acquireService-005**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A deviceID is given that is unknown to the server, i.e. does not correspond to a device that is known to the server.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'acquireService' is sent. The following parameters are provided:

Key	Value/Property
serviceID	The serviceID is valid w.r.t. the service that should be tested
deviceID	The deviceID is unknown to the server according to the precondition

**Table 1.10** Parameters for the operation 'acquireService'.*Expected Result:*

- A HLBS fault-message 'InvalidDeviceId' for the operation 'acquireService' is received.
- The received hlbs message contains a value at key id that has the following property:

The value of id is equal to the value of deviceID that was requested.

**Table 1.9** Test Case ID: TC-HLBS-SRV-ALL-acquireService-005**Test Case ID: TC-HLBS-SRV-ALL-acquireService-006**

<i>Scope</i>	Testing the acquireService operation for a HLBS Server with a deviceID that is invalid in combination with the respective service.
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**Test Case ID: TC-HLBS-SRV-ALL-acquireService-006**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A deviceID is given that is known to the server but invalid in combination with the service to be tested, e.g. a finger print scanner device in combination with "Facial Image Acquisition System".</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'acquireService' is sent. The following parameters are provided:

Key	Value/Property
serviceID	The serviceID is valid w.r.t. the service that should be tested.
deviceID	The deviceID is known to the server but invalid in combination with the service (cf. to precondition).

**Table 1.12** Parameters for the operation 'acquireService'.*Expected Result:*

- A HLBS fault-message 'InvalidDeviceId' for the operation 'acquireService' is received.
- The received hlbs message contains a value at key id that has the following property:

The value of id is equal to the value of deviceID that was requested.

**Table 1.11** Test Case ID: TC-HLBS-SRV-ALL-acquireService-006

## 1.1.2 Testcases for Operation beginServiceExecution

**Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-001**

<i>Scope</i>	Testing the beginServiceExecution operation on HLBS Server for a service that was acquired beforehand.
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**Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-001**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description*

Step	Description / Expected Result				
1	<p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'beginServiceExecution' is sent. The following parameter is provided:</li> </ul> <table border="1"> <thead> <tr> <th>Key</th> <th>Value/Property</th> </tr> </thead> <tbody> <tr> <td>sessionHandle</td> <td>The sessionHandle that was acquired according to the precondition.</td> </tr> </tbody> </table> <p><b>Table 1.14</b> Parameters for the operation 'beginServiceExecution'.</p> <p><i>Expected Result:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'beginServiceExecution' is received.</li> <li>• The received hlbs message contains a value at key feedback that has the following property: The value at key feedback is of type hlbs:Feedback.</li> </ul>	Key	Value/Property	sessionHandle	The sessionHandle that was acquired according to the precondition.
Key	Value/Property				
sessionHandle	The sessionHandle that was acquired according to the precondition.				

**Table 1.13** Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-001**Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-002**

<i>Scope</i>	Testing the beginServiceExecution operation on HLBS Server, focussed on the case that the provided sessionHandle is unknown.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>

**Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-002**

- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

- 1      *Description:*
- A HLBS response-message for the operation 'beginServiceExecution' is sent. The following parameter is provided:

Key	Value/Property
sessionHandle	The sessionHandle does not match the sessionHandle that was acquired according to the precondition.

**Table 1.16** Parameters for the operation 'beginServiceExecution'.*Expected Result:*

- A HLBS fault-message 'InvalidSessionHandle' for the operation 'beginServiceExecution' is received.
- The received hlbs message contains a value at key id that has the following property:

The value of id is equal to the value of sessionHandle that was requested.

**Table 1.15** Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-002**Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-003**

*Scope*      Testing the beginServiceExecution operation on HLBS Server, focussed on the case that the service is already running (i.e. beginServiceExecution was called before).

*Applicability*      The testcase is applicable for the following services:

- Facial Image Acquisition System
- Basic Facial Image Acquisition System
- Fingerprint Acquisition
- Rolled Fingerprint Acquisition
- Automated Acquisition Slap Fingerprints SSS
- Automated Acquisition Facial Images SSS
- Facial Image Delivery System

- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.
  - The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.

**Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-003**

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

- 1      *Description:*
- A HLBS response-message for the operation 'beginServiceExecution' is sent. The following parameter is provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.

**Table 1.18** Parameters for the operation 'beginServiceExecution'.*Expected Result:*

- A HLBS fault-message 'AlreadyRunning' for the operation 'beginServiceExecution' is received.

**Table 1.17** Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-003**Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-004**

*Scope*      Testing the beginServiceExecution operation requiring MTOM for a HLBS Server that does not support MTOM.

*Applicability*      The testcase is applicable for the following services:

- Facial Image Acquisition System
- Basic Facial Image Acquisition System
- Fingerprint Acquisition
- Rolled Fingerprint Acquisition
- Automated Acquisition Slap Fingerprints SSS
- Automated Acquisition Facial Images SSS
- Facial Image Delivery System

The HLBS Server does not support MTOM.

- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

**Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-004**

1

*Description:*

- A HLBS response-message for the operation 'beginServiceExecution' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle was acquired according to the precondition.
useMTOM	true

**Table 1.20** Parameters for the operation 'beginServiceExecution'.*Expected Result:*

- A HLBS fault-message 'MTOMNotSupported' for the operation 'beginServiceExecution' is received.

**Table 1.19** Test Case ID: TC-HLBS-SRV-ALL-beginServiceExecution-004

### 1.1.3 Testcases for Operation configureService

**Test Case ID: TC-HLBS-SRV-ALL-configureService-001**

<i>Scope</i>	Testing the configureService operation for HLBS Servers, focussed on whether the value "enrolment" may be used for the Parameter with ID "Purpose".
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle was acquired according to the precondition.
parameters[1]/key	Purpose
parameters[1]/stringValue	enrolment

**Table 1.22** Parameters for the operation 'configureService'.*Expected Result:*

**Test Case ID: TC-HLBS-SRV-ALL-configureService-001**

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.21** Test Case ID: TC-HLBS-SRV-ALL-configureService-001**Test Case ID: TC-HLBS-SRV-ALL-configureService-002**

<i>Scope</i>	Testing the configureService operation for HLBS Servers, focussed on whether the possible value "verification" may be configured for the Parameter with ID "Purpose".
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

- |   |  |
|---|--|
| 1 | <i>Description:</i> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:</li> </ul> |
|---|--|

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.
parameters[1]/key	Purpose
parameters[1]/stringValue	verification

**Table 1.24** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.23** Test Case ID: TC-HLBS-SRV-ALL-configureService-002**Test Case ID: TC-HLBS-SRV-ALL-configureService-003**

<i>Scope</i>	Testing the configureService operation for HLBS Servers, focussed on the case that the provided sessionHandle is unknown. A more generic version where the specific configuration is left to the evaluator.
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**Test Case ID: TC-HLBS-SRV-ALL-configureService-003**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle does not match the sessionHandle that was acquired according to the precondition.
parameters[1]/key	The requested key matches a "Parameter ID" that is a configuration option for the respective service.
parameters[1]/*	The requested value matches a "Possible Value" that is a configuration option for "Parameter ID" of the respective service.

**Table 1.26** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS fault-message 'InvalidSessionHandle' for the operation 'configureService' is received.
- The received hlbs message contains a value at key id that has the following property:

The value of id is equal to the value of sessionHandle that was requested.

**Table 1.25** Test Case ID: TC-HLBS-SRV-ALL-configureService-003**Test Case ID: TC-HLBS-SRV-ALL-configureService-004**

<i>Scope</i>	Testing the configureService operation for HLBS Servers, focussed on the case that the requested "Parameter ID" is unknown.
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**Test Case ID: TC-HLBS-SRV-ALL-configureService-004**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• A list of the configuration options (i.e. "Parameter ID" mapped to "Possible Values") that the IUT supports shall be given.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.
parameters[1]/key	The requested key does not match the "Parameter ID" of any configuration option for the IUT.
parameters[1]/stringValue	ANYVALUE

**Table 1.28** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS fault-message 'InvalidParameterKey' for the operation 'configureService' is received.
- The received hlbs message contains a value at key id that has the following property:  
The value of id is equal to the value of parameters[1]/key that was requested.

**Table 1.27** Test Case ID: TC-HLBS-SRV-ALL-configureService-004**Test Case ID: TC-HLBS-SRV-ALL-configureService-005**

<i>Scope</i>	Testing the configureService operation for HLBS Servers, focussed on the case that the requested "Value" is no "Possible Value".
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**Test Case ID: TC-HLBS-SRV-ALL-configureService-005**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• A list of the configuration options (i.e. "Parameter ID" mapped to "Possible Values") that the IUT supports shall be given.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

- |   |   |
|---|---|
| 1 | <p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:</li> </ul> |
|---|---|

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.
parameters[1]/key	Purpose
parameters[1]/stringValue	According to the precondition the value is not a configuration option in combination for "Purpose" (i.e. "parameters[1]/key") for the IUT.

**Table 1.30** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS fault-message 'InvalidParameterValue' for the operation 'configureService' is received.
- The received hlbs message contains the value Purpose at key parameter-Key.

**Table 1.29** Test Case ID: TC-HLBS-SRV-ALL-configureService-005

## 1.1.4 Testcases for Operation endServiceExecution

**Test Case ID: TC-HLBS-SRV-ALL-endServiceExecution-001**

<i>Scope</i>	Testing the endServiceExecution operation on HLBS Server focussed on the case that a valid sessionHandle is provided.
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**Test Case ID: TC-HLBS-SRV-ALL-endServiceExecution-001**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

- |   |  |
|---|--|
| 1 | <p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'endServiceExecution' is sent. The following parameter is provided:</li> </ul> |
|---|--|

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.

**Table 1.32** Parameters for the operation 'endServiceExecution'.*Expected Result:*

- A HLBS response-message for the operation 'endServiceExecution' is received.

**Table 1.31** Test Case ID: TC-HLBS-SRV-ALL-endServiceExecution-001**Test Case ID: TC-HLBS-SRV-ALL-endServiceExecution-002**

<i>Scope</i>	Testing the endServiceExecution operation on HLBS Server focussed on the case that an invalid sessionHandle is provided.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>

**Test Case ID: TC-HLBS-SRV-ALL-endServiceExecution-002**

- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.
  - The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

- 1      *Description:*
- A HLBS response-message for the operation 'endServiceExecution' is sent. The following parameter is provided:

Key	Value/Property
sessionHandle	The sessionHandle does not match the sessionHandle that was acquired according to the precondition.

**Table 1.34** Parameters for the operation 'endServiceExecution'.*Expected Result:*

- A HLBS fault-message 'InvalidSessionHandle' for the operation 'endServiceExecution' is received.
- The received hlbs message contains a value at key id that has the following property:  
The value of id is equal to the value of sessionHandle that was requested.

**Table 1.33** Test Case ID: TC-HLBS-SRV-ALL-endServiceExecution-002

## 1.1.5 Testcases for Operation getResultts

**Test Case ID: TC-HLBS-SRV-ALL-getResults-001**

*Scope*      Testing the getResultts operation on HLBS Server focussed on the case that a valid sessionHandle is provided after ServiceExecution is finished.

*Applicability*      The testcase is applicable for the following services:

- Facial Image Acquisition System
- Basic Facial Image Acquisition System
- Fingerprint Acquisition
- Rolled Fingerprint Acquisition
- Automated Acquisition Slap Fingerprints SSS
- Automated Acquisition Facial Images SSS
- Facial Image Delivery System

- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.
  - The execution of the service that shall be tested is finished, i.e. beginServiceExecution and endServiceExecution have already been called.

**Test Case ID: TC-HLBS-SRV-ALL-getResults-001**

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'getResults' is sent. The following parameter is provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that was acquired according to the precondition.

**Table 1.36** Parameters for the operation 'getResults'.*Expected Result:*

- A HLBS response-message for the operation 'getResults' is received.
- The received hlbs message contains a value at key results that has the following property:  
results is of type hlbs:Results.

**Table 1.35** Test Case ID: TC-HLBS-SRV-ALL-getResults-001**Test Case ID: TC-HLBS-SRV-ALL-getResults-002**

*Scope*      Testing the getResultsts operation on HLBS Server focussed on the case that an invalid sessionHandle is provided after ServiceExecution is finished.

*Applicability*      The testcase is applicable for the following services:

- Facial Image Acquisition System
- Basic Facial Image Acquisition System
- Fingerprint Acquisition
- Rolled Fingerprint Acquisition
- Automated Acquisition Slap Fingerprints SSS
- Automated Acquisition Facial Images SSS
- Facial Image Delivery System

*Preconditions*

- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).

- A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.

- The execution of the service that shall be tested is finished, i.e. beginServiceExecution and endServiceExecution have already been called.

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

**Test Case ID: TC-HLBS-SRV-ALL-getResults-002**

1

*Description:*

- A HLBS response-message for the operation 'getResults' is sent. The following parameter is provided:

Key	Value/Property
sessionHandle	The sessionHandle does not match the sessionHandle that was acquired according to the precondition.

**Table 1.38** Parameters for the operation 'getResults'.*Expected Result:*

- A HLBS fault-message 'InvalidSessionHandle' for the operation 'getResults' is received.
- The received hlbs message contains a value at key id that has the following property:  
The value of id is equal to the value of sessionHandle that was requested.

**Table 1.37** Test Case ID: TC-HLBS-SRV-ALL-getResults-002**Test Case ID: TC-HLBS-SRV-ALL-getResults-003***Scope*

Testing the getResults operation on HLBS Server focussed on the case that an invalid sessionHandle is provided but ServiceExecution is not finished yet.

*Applicability*

The testcase is applicable for the following services:

- Facial Image Acquisition System
- Basic Facial Image Acquisition System
- Fingerprint Acquisition
- Rolled Fingerprint Acquisition
- Automated Acquisition Slap Fingerprints SSS
- Automated Acquisition Facial Images SSS
- Facial Image Delivery System

*Preconditions*

- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
- A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.
- The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.

*CTS Mode*

- automatic
- no provision of pre-defined input data
- HTTP method: POST
- CTS acts as: Client

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'getResults' is sent. The following parameter is provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that was acquired according to the precondition.

**Table 1.40** Parameters for the operation 'getResults'.

**Test Case ID: TC-HLBS-SRV-ALL-getResults-003***Expected Result:*

- A HLBS fault-message 'NotFinishedYet' for the operation 'getResults' is received.

**Table 1.39** Test Case ID: TC-HLBS-SRV-ALL-getResults-003

## 1.1.6 Testcases for Operation getServiceDescription

**Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-001**

<i>Scope</i>	Testing the getServiceDescription operation for a HLBS Server identifying a valid service but not device.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A hardware-device is connected that is compatible with the service to be tested is available, i.e. not currently in use.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'getServiceDescription' is sent. The following parameter is provided:

Key	Value/Property
serviceID	The serviceID is valid w.r.t. the service that should be tested

**Table 1.42** Parameters for the operation 'getServiceDescription'.*Expected Result:*

- A HLBS response-message for the operation 'getServiceDescription' is received.
- The received hlbs message contains a value at key serviceDescriptionXML that has the following property:

The value of serviceDescriptionXML is a base64-encoded XML that validates against the schema "hlbs\_service\_v1.xsd."

**Table 1.41** Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-001**Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-002**

<i>Scope</i>	Testing the getServiceDescription operation for a HLBS Server with a valid service, device combination.
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**Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-002**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A hardware-device is connected that is compatible with the service to be tested is available, i.e. not currently in use.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'getServiceDescription' is sent. The following parameters are provided:

Key	Value/Property
serviceID	The serviceID is valid w.r.t. the service that should be tested
deviceID	The deviceID is corresponding to the device according to the precondition (i.e. valid and available)

**Table 1.44** Parameters for the operation 'getServiceDescription'.*Expected Result:*

- A HLBS response-message for the operation 'getServiceDescription' is received.
- The received hlbs message contains a value at key serviceDescriptionXML that has the following property:

The value of serviceDescriptionXML is a base64-encoded XML that validates against the schema "hlbs\_service\_v1.xsd."

**Table 1.43** Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-002**Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-003**

<i>Scope</i>	Testing the getServiceDescription operation for a HLBS Server with an invalid service id.
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**Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-003**

<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A hardware-device is connected that is compatible with the service to be tested is available, i.e. not currently in use.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1	<p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'getServiceDescription' is sent. The following parameter is provided:</li> </ul>
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Key	Value/Property
serviceID	The serviceID is invalid, i.e. does not refer to a service known by the IUT.

**Table 1.46** Parameters for the operation 'getServiceDescription'.*Expected Result:*

- A HLBS fault-message 'InvalidServiceId' for the operation 'getServiceDescription' is received.
- The received hlbs message contains a value at key id that has the following property:  
The value of id is equal to the value of serviceID that was requested.

**Table 1.45** Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-003**Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-004**

<i>Scope</i>	Testing the getServiceDescription operation for a HLBS Server with a valid service-id but in combination with an invalid device.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>

**Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-004**

- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A hardware-device is known that is incompatible with the service to be tested or unknown.
- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

- 1      *Description:*
- A HLBS response-message for the operation 'getServiceDescription' is sent. The following parameters are provided:

Key	Value/Property
serviceID	The serviceID is valid w.r.t. the service that should be tested
deviceID	The deviceID is chosen corresponding to the device according to the precondition (i.e.incompatible or unknown)

**Table 1.48** Parameters for the operation 'getServiceDescription'.*Expected Result:*

- A HLBS fault-message 'InvalidDeviceId' for the operation 'getServiceDescription' is received.
- The received hlbs message contains a value at key id that has the following property:  
The value of id is equal to the value of deviceID that was requested.

**Table 1.47** Test Case ID: TC-HLBS-SRV-ALL-getServiceDescription-004

## 1.1.7 Testcases for Operation releaseService

**Test Case ID: TC-HLBS-SRV-ALL-releaseService-001**

- Scope*
- Testing the releaseService operation for a HLBS Server focussed on the case that a valid sessionHandle is provided.
- Applicability*
- The testcase is applicable for the following services:
- Facial Image Acquisition System
  - Basic Facial Image Acquisition System
  - Fingerprint Acquisition
  - Rolled Fingerprint Acquisition
  - Automated Acquisition Slap Fingerprints SSS
  - Automated Acquisition Facial Images SSS
  - Facial Image Delivery System
- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.

**Test Case ID: TC-HLBS-SRV-ALL-releaseService-001**

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'releaseService' is sent. The following parameter is provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that was acquired according to the precondition.

**Table 1.50** Parameters for the operation 'releaseService'.*Expected Result:*

- A HLBS response-message for the operation 'releaseService' is received.

**Table 1.49** Test Case ID: TC-HLBS-SRV-ALL-releaseService-001**Test Case ID: TC-HLBS-SRV-ALL-releaseService-002**

*Scope*      Testing the releaseService operation for a HLBS Server focussed on the case that an invalid sessionHandle is provided.

*Applicability*      The testcase is applicable for the following services:

- Facial Image Acquisition System
- Basic Facial Image Acquisition System
- Fingerprint Acquisition
- Rolled Fingerprint Acquisition
- Automated Acquisition Slap Fingerprints SSS
- Automated Acquisition Facial Images SSS
- Facial Image Delivery System

*Preconditions*      • The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).

- A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

**Test Case ID: TC-HLBS-SRV-ALL-releaseService-002**

1

*Description:*

- A HLBS response-message for the operation 'releaseService' is sent. The following parameter is provided:

Key	Value/Property
sessionHandle	The sessionHandle does not match the sessionHandle that was acquired according to the precondition.

**Table 1.52** Parameters for the operation 'releaseService'.*Expected Result:*

- A HLBS fault-message 'InvalidSessionHandle' for the operation 'releaseService' is received.
- The received hlbs message contains a value at key id that has the following property:

The value of id is equal to the value of sessionHandle that was requested.

**Table 1.51** Test Case ID: TC-HLBS-SRV-ALL-releaseService-002

## 1.1.8 Testcases for Operation signalUserCommand

**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-001**

<i>Scope</i>	Testing the signalUserCommand operation for a HLBS Server, focussed on the case that an allowed usercommand is signaled.		
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>		
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> <li>• A set of momentarily allowed user commands shall be available (e.g. by calling "getServiceDescription" first).</li> </ul>		
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>		
<i>Description</i>	<table border="1"> <thead> <tr> <th>Step</th> <th>Description / Expected Result</th> </tr> </thead> <tbody> </tbody> </table>	Step	Description / Expected Result
Step	Description / Expected Result		

**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-001**

1

*Description:*

- A HLBS response-message for the operation 'signalUserCommand' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.
userCommand/userCommandId	The value identifies an allowed user command according to the precondition.

**Table 1.54** Parameters for the operation 'signalUserCommand'.

*Expected Result:*

- A HLBS response-message for the operation 'signalUserCommand' is received.

**Table 1.53** Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-001

**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-002**

<i>Scope</i>	Testing the signalUserCommand operation on HLBS Server focussed on the case that the sessionhandle is invalid.		
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>		
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> <li>• A set of momentarily allowed user commands shall be available (e.g. by calling "getServiceDescription" first).</li> </ul>		
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>		
<i>Description</i>	<table border="1"> <thead> <tr> <th>Step</th> <th>Description / Expected Result</th> </tr> </thead> <tbody> </tbody> </table>	Step	Description / Expected Result
Step	Description / Expected Result		

**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-002**

1

*Description:*

- A HLBS response-message for the operation 'signalUserCommand' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle does not match the sessionHandle that refers to the service that is already being executed according to the precondition.
userCommand/userCommandId	The value identifies an allowed user command according to the precondition.

**Table 1.56** Parameters for the operation 'signalUserCommand'.

*Expected Result:*

- A HLBS fault-message 'InvalidSessionHandle' for the operation 'signalUserCommand' is received.
- The received hlbs message contains a value at key id that has the following property:

The value of id is equal to the value of sessionHandle that was requested.

**Table 1.55** Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-002

**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-003**

<i>Scope</i>	Testing the signalUserCommand operation on HLBS Server for Facial Image Acquisition System focussed on the case that the user command is invalid.		
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>		
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> <li>• A set of momentarily allowed user commands shall be available (e.g. by calling "getServiceDescription" first).</li> </ul>		
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>		
<i>Description</i>	<table border="1"> <thead> <tr> <th>Step</th> <th>Description / Expected Result</th> </tr> </thead> <tbody> </tbody> </table>	Step	Description / Expected Result
Step	Description / Expected Result		

**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-003**

1

*Description:*

- A HLBS response-message for the operation 'signalUserCommand' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.
userCommand/userCommandId	UnknownCommandId

**Table 1.58** Parameters for the operation 'signalUserCommand'.

*Expected Result:*

- A HLBS fault-message 'InvalidUserCommandId' for the operation 'signalUserCommand' is received.
- The received hlbs message contains the value UnknownCommandId at key id.

**Table 1.57** Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-003

**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-004**

<i>Scope</i>	Testing the signalUserCommand operation on HLBS Server for Facial Image Acquisition System focussed on the case that the parameters provided with the usercommand specify invalid keys.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> <li>• A set of momentarily allowed user commands shall be available (e.g. by calling "getServiceDescription" first). One of which shall require additional parameters to be sent (e.g. "SetVerticalPosition" with a specified height).</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

<i>Description</i>	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 20%;">Step</th> <th>Description / Expected Result</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Step	Description / Expected Result		
Step	Description / Expected Result				

**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-004**

1

*Description:*

- A HLBS response-message for the operation 'signalUserCommand' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.
userCommand/userCommandId	The requested userCommandId shall momentarily be allowed and require additional parameters (see precondition).
userCommand/parameters[1]/key	The value of key shall not match the requested userCommandId
userCommand/parameters[1]/TYPE	TYPE shall be an element specifying a suitable type according to TR03121-2  The value shall be valid for the respective user command according to TR03121-2.

**Table 1.60** Parameters for the operation 'signalUserCommand'.*Expected Result:*

- A HLBS fault-message 'InvalidParameterKey' for the operation 'signalUserCommand' is received.
- The received hlbs message contains a value at key id that has the following property:  
The id matches the usercommand that was requested.

**Table 1.59** Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-004**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-005**

<i>Scope</i>	Testing the signalUserCommand operation on HLBS Server for Facial Image Acquisition System focussed on the case that the parameters provided with the usercommand specify invalid values.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Automated Acquisition Slap Fingerprints SSS</li> <li>• Automated Acquisition Facial Images SSS</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> <li>• A set of momentarily allowed user commands shall be available (e.g. by calling "getServiceDescription" first). One of which shall require additional parameters to be sent (e.g. "SetVerticalPosition" with a specified height).</li> </ul>



**Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-005**

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'signalUserCommand' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.
userCommand/userCommandId	The requested userCommandId shall momentarily be allowed and require additional parameters (see precondition).
userCommand/parameters[1]/key	The value of key shall match the requested userCommandId
userCommand/parameters[1]/TYPE	TYPE shall be an element specifying a suitable type according to TR03121-2  The value shall be invalid for the respective user command according to TR03121-2.

**Table 1.62** Parameters for the operation 'signalUserCommand'.*Expected Result:*

- A HLBS fault-message 'InvalidParameterValue' for the operation 'signalUserCommand' is received.
- The received hlbs message contains a value at key parameterKey that has the following property:

The parameterKey matches the key that was requested.

**Table 1.61** Test Case ID: TC-HLBS-SRV-ALL-signalUserCommand-005

## 1.2 Testcases for a Specific Set of Service Definitions (APP)

This section contains testcases that are applicable to HLBS Servers implementing a specific set of service definitions.

### 1.2.1 Testcases for Operation configureService

**Test Case ID: TC-HLBS-SRV-APP-configureService-001**

*Scope*      Testing the configureService operation for HLBS Servers, focussed on whether the possible value "identification" for the Parameter with ID "Purpose".

*Applicability*      The testcase is applicable for the following services:

- Facial Image Acquisition System
- Basic Facial Image Acquisition System
- Fingerprint Acquisition
- Rolled Fingerprint Acquisition
- Facial Image Delivery System

**Test Case ID: TC-HLBS-SRV-APP-configureService-001**

- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

- 1      *Description:*
- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.
parameters[1]/key	Purpose
parameters[1]/string Value	identification

**Table 1.64** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.63** Test Case ID: TC-HLBS-SRV-APP-configureService-001**Test Case ID: TC-HLBS-SRV-APP-configureService-002**

*Scope*      Testing the configureService operation for HLBS Servers, focussed on whether the possible value "other" for the Parameter with ID "Purpose".

*Applicability*      The testcase is applicable for the following services:

- Facial Image Acquisition System
- Basic Facial Image Acquisition System
- Facial Image Delivery System

- Preconditions*
- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).
  - A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.

- CTS Mode*
- automatic
  - no provision of pre-defined input data
  - HTTP method: POST
  - CTS acts as: Client

*Description***Step**      **Description / Expected Result**

**Test Case ID: TC-HLBS-SRV-APP-configureService-002**

1

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.
parameters[1]/key	Purpose
parameters[1]/string Value	other

**Table 1.66** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.65** Test Case ID: TC-HLBS-SRV-APP-configureService-002**Test Case ID: TC-HLBS-SRV-APP-configureService-003**

<i>Scope</i>	Testing the configureService operation for HLBS Servers, focussed on the possible values for the Parameter with ID "Application Profile".
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> <li>• Fingerprint Acquisition</li> <li>• Rolled Fingerprint Acquisition</li> <li>• Facial Image Delivery System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• A list of the Application Profiles the service supports shall be given.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle was acquired according to the precondition.
parameters[1]/key	ApplicationProfile
parameters[1]/string Value	The value shall be of type hlbs:ApplicationProfile corresponding to an entry from the list of supported values (ref. to precondition).

**Table 1.68** Parameters for the operation 'configureService'.

**Test Case ID: TC-HLBS-SRV-APP-configureService-003***Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.67** Test Case ID: TC-HLBS-SRV-APP-configureService-003**Test Case ID: TC-HLBS-SRV-APP-configureService-004**

<i>Scope</i>	Testing the configureService operation for HLBS Servers, focussed on the possible values for the Parameter with ID "TimeOut".
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> <li>• Basic Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• If the IUT supports both automated and manual mode it shall be configured to automated mode (i.e. configureService shall be called prior).</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description*

Step	Description / Expected Result								
1	<p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:</li> </ul> <table border="1"> <thead> <tr> <th>Key</th> <th>Value/Property</th> </tr> </thead> <tbody> <tr> <td>sessionHandle</td> <td>The sessionHandle that was acquired according to the precondition.</td> </tr> <tr> <td>parameters[1]/key</td> <td>TimeOut</td> </tr> <tr> <td>parameters[1]/intValue</td> <td>0</td> </tr> </tbody> </table>	Key	Value/Property	sessionHandle	The sessionHandle that was acquired according to the precondition.	parameters[1]/key	TimeOut	parameters[1]/intValue	0
Key	Value/Property								
sessionHandle	The sessionHandle that was acquired according to the precondition.								
parameters[1]/key	TimeOut								
parameters[1]/intValue	0								

**Table 1.70** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

2

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was used in the previous step.
parameters[1]/key	TimeOut
parameters[1]/intValue	10000

**Table 1.71** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.69** Test Case ID: TC-HLBS-SRV-APP-configureService-004

## 1.3 Testcases for Service Definition Facial Image Acquisition System (FIAS)

This section contains testcases that are applicable to HLBS servers implementing the service Facial Image Acquisition System (FIAS).

### 1.3.1 Testcases for Operation configureService

**Test Case ID: TC-HLBS-SRV-FIAS-configureService-001**

<i>Scope</i>	Testing the configureService operation for HLBS Servers for FIAS, focussed on the possible values for the Parameter with ID "InitialVerticalPosition".
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• The service 'Facial Image Acquisition System' has been acquired in valid combination with a suitable deviceID.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description*

**Step**                      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.
parameters[1]/key	InitialVerticalPosition
parameters[1]/float Value	0

**Table 1.73** Parameters for the operation 'configureService'.

*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

2

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was used in the previous step.
parameters[1]/key	InitialVerticalPosition
parameters[1]/float Value	0.5

**Table 1.74** Parameters for the operation 'configureService'.

*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Test Case ID: TC-HLBS-SRV-FIAS-configureService-001**

3

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was used in the previous step.
parameters[1]/key	InitialVerticalPosition
parameters[1]/float Value	1

**Table 1.75** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.72** Test Case ID: TC-HLBS-SRV-FIAS-configureService-001**Test Case ID: TC-HLBS-SRV-FIAS-configureService-002**

<i>Scope</i>	Testing the configureService operation for HLBS Servers for FIAS, focussed on the possible values for the Parameter with ID "InitialIlluminationLevel".
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• The service 'Facial Image Acquisition System' has been acquired in valid combination with a suitable deviceID.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.
parameters[1]/key	InitialIlluminationLevel
parameters[1]/float Value	0

**Table 1.77** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Test Case ID: TC-HLBS-SRV-FIAS-configureService-002**

2

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was used in the previous step.
parameters[1]/key	InitialIlluminationLevel
parameters[1]/float Value	0.5

**Table 1.78** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

3

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was used in the previous step.
parameters[1]/key	InitialIlluminationLevel
parameters[1]/float Value	1

**Table 1.79** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.76** Test Case ID: TC-HLBS-SRV-FIAS-configureService-002**Test Case ID: TC-HLBS-SRV-FIAS-configureService-003**

<i>Scope</i>	Testing the configureService operation for HLBS Servers for FIAS, focussed on the possible values for the Parameter with ID "InitialOperationMode".
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• The service 'Facial Image Acquisition System' has been acquired in valid combination with a suitable deviceID.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description*

Step	Description / Expected Result
------	-------------------------------

**Test Case ID: TC-HLBS-SRV-FIAS-configureService-003**

1

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was acquired according to the precondition.
parameters[1]/key	InitialOperationMode
parameters[1]/string Value	automated

**Table 1.81** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

2

*Description:*

- A HLBS response-message for the operation 'configureService' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle that was used in the previous step.
parameters[1]/key	InitialOperationMode
parameters[1]/string Value	manual

**Table 1.82** Parameters for the operation 'configureService'.*Expected Result:*

- A HLBS response-message for the operation 'configureService' is received.

**Table 1.80** Test Case ID: TC-HLBS-SRV-FIAS-configureService-003

### 1.3.2 Testcases for Operation getAllServices

**Test Case ID: TC-HLBS-SRV-FIAS-getAllServices-001**

*Scope* Testing the getAllServices operation on HLBS Server for Facial Image Acquisition System.

*Applicability* The testcase is applicable for the following services:

- Facial Image Acquisition System

*Preconditions*

- The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).

*CTS Mode*

- automatic
- no provision of pre-defined input data
- HTTP method: POST
- CTS acts as: Client

*Description*

Step	Description / Expected Result
------	-------------------------------

1

*Description:*

- A HLBS response-message for the operation 'getAllServices' is sent. No parameters are provided.

*Expected Result:*

- A HLBS response-message for the operation 'getAllServices' is received.
- The received hlbs message contains the value 1411ad9f-58e6-4d3c-816d-7fe9d7b67336 at key service/id.



**Test Case ID: TC-HLBS-SRV-FIAS-getAllServices-001**

- The received hlbs message contains a value at key `service/type` that has the following property:  
Type is set to a vendor-specific value
- The received hlbs message contains a value at key `service/vendor` that has the following property:  
Vendor is set to a vendor-specific value
- The received hlbs message contains the value `Facial Image Acquisition System` at key `service/name`.
- The received hlbs message contains a value at key `service/version` that has the following property:  
Version corresponds to the respective TR Version
- The received hlbs message contains a value at key `service/devices` that has the following property:  
Devices is set to vendor-specific value(s)
- There is a single element "service" for which all of the expected results above hold

**Table 1.83** Test Case ID: TC-HLBS-SRV-FIAS-getAllServices-001

### 1.3.3 Testcases for Operation getServiceFeedback

**Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-001**

<i>Scope</i>	Testing the getServiceFeedback operation for a HLBS Server implementing Facial Image Acquisition System in manual mode.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The IUT is configured to work in 'manual' mode.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> <li>• A schema file the returned xml shall validate against is given.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

- |   |   |
|---|---|
| 1 | <p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation 'getServiceFeedback' is sent. The following parameters are provided:</li> </ul> |
|---|---|

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.
timeout-ms	10000.

**Table 1.85** Parameters for the operation 'getServiceFeedback'.

## Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-001

*Expected Result:*

- A HLBS response-message for the operation 'getServiceFeedback' is received.
- The received hlbs message contains a value at key feedback that has the following property:  
feedback is of type hlbs:Feedback.
- The received hlbs message contains a value at key feedback/status that has the following properties:  
status is of type hlbs:FeedbackStatus.  
status is either "running", "waiting-for-input" or "finished".
- The received hlbs message contains the value Cancel at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value Capture at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value SwitchMode at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value TriggerAutoFocus at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value SetManualFocusPoint at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value TriggerAutoHeightAdjustment at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value SetVerticalPosition at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value IncrementVerticalPosition at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value DecrementVerticalPosition at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value SetAbsoluteIlluminationLevel at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value IncrementIlluminationLevel at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value DecrementIlluminationLevel at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value CropManually at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value RotateManually at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value AcceptImage at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value RejectImage at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value LiveStatus at key feedback/feedbackElements/key.
- The value of LiveStatus is a "Possible Value" according to the service definition in TR03121-2.
- The received hlbs message contains the value LiveImage at key feedback/feedbackElements/key.

## Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-001

- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="LiveImage"]/following-sibling::imageValue` that has the following property:  
imageValue is of type `hlbs:Image`.
- The received hlbs message contains the value `LiveCroppedFacialImage` at key `feedback/feedbackElements/key`.
- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="LiveCroppedFacialImage"]/following-sibling::imageValue` that has the following property:  
imageValue is of type `hlbs:Image`.
- The received hlbs message contains the value `CurrentFocusPoint` at key `feedback/feedbackElements/key`.
- The received hlbs message contains a value at key `feedback/feedbackElements/key[.="CurrentFocusPoint"]/following-sibling::floatValue` that is greater or equal to 40 and less or equal to 100.
- The received hlbs message contains the value `CurrentVerticalPosition` at key `feedback/feedbackElements/key`.
- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="CurrentVerticalPosition"]/following-sibling::floatValue` that is greater or equal to 0 and less or equal to 1.
- The received hlbs message contains the value `CurrentIlluminationLevel` at key `feedback/feedbackElements/key`.
- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="CurrentIlluminationLevel"]/following-sibling::floatValue` that is greater or equal to 0 and less or equal to 1.
- The received hlbs message contains the value `QAFeedback` at key `feedback/feedbackElements/key`.
- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="CurrentVerticalPosition"]/following-sibling::stringValue` that has the following property:  
The returned string is base64-encoded XML that is valid according to the schema-file (see precondition).
- The received hlbs message contains the value `QAEntireFacialImage` at key `feedback/feedbackElements/key`.
- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="QAEntireFacialImage"]/following-sibling::imageValue` that has the following property:  
imageValue is of type `hlbs:Image`.
- The received hlbs message contains the value `QACroppedFacialImage` at key `feedback/feedbackElements/key`.
- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="QACroppedFacialImage"]/following-sibling::imageValue` that has the following property:  
imageValue is of type `hlbs:Image`.
- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="QACroppedFacialImage"]/following-sibling::imageValue/imageData` that has the following property:  
The encoded value matches the "regionOfInterest" as defined by "feedback/feedbackElements/key[.="QAEntireFacialImage"]/following-sibling::imageValue/regionOfInterest".
- The received hlbs message contains the value `QACroppedFacialImageRotation` at key `feedback/feedbackElements/key`.

**Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-001**

- The received hlbs message contains a value at key `feedback/feedback-Elements/key[.="QACroppedFacialImageRotation"]/following-sibling::floatValue` that is greater or equal to 0 and less or equal to 360.

**Table 1.84** Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-001**Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-002**

<i>Scope</i>	Testing the <code>getServiceFeedback</code> operation for a HLBS Server implementing Facial Image Acquisition System in manual mode using a <code>sessionHandle</code> that is unknown to the server.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. <code>acquireService</code> was called with a valid combination of <code>serviceID</code> and <code>deviceID</code>. A corresponding <code>sessionHandle</code> exists.</li> <li>• The IUT is configured to work in 'manual' mode.</li> <li>• The service that shall be tested is currently executed, i.e. <code>beginServiceExecution</code> has already been called.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

- |   |  |
|---|--|
| 1 | <p><i>Description:</i></p> <ul style="list-style-type: none"> <li>• A HLBS response-message for the operation '<code>getServiceFeedback</code>' is sent. The following parameters are provided:</li> </ul> |
|---|--|

Key	Value/Property
<code>sessionHandle</code>	The <code>sessionHandle</code> does not match the <code>sessionHandle</code> that refers to the service that is already being executed according to the precondition.
<code>timeout-ms</code>	10000

**Table 1.87** Parameters for the operation '`getServiceFeedback`'.*Expected Result:*

- A HLBS fault-message '`InvalidSessionHandle`' for the operation '`getServiceFeedback`' is received.

**Table 1.86** Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-002**Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-003**

<i>Scope</i>	Testing the <code>getServiceFeedback</code> operation for a HLBS Server implementing Facial Image Acquisition System in manual mode waiting for a timeout.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> </ul>

**Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-003**

<i>Preconditions</i>	<ul style="list-style-type: none"> <li>The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>The IUT is configured to work in 'manual' mode.</li> <li>The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>automatic</li> <li>no provision of pre-defined input data</li> <li>HTTP method: POST</li> <li>CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

- |   |   |
|---|---|
| 1 | <p><i>Description:</i></p> <ul style="list-style-type: none"> <li>A HLBS response-message for the operation 'getServiceFeedback' is sent. The following parameters are provided:</li> </ul> |
|---|---|

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.
timeout-ms	0

**Table 1.89** Parameters for the operation 'getServiceFeedback'.*Expected Result:*

- A HLBS fault-message 'TimeoutOccured' for the operation 'getServiceFeedback' is received.

**Table 1.88** Test Case ID: TC-HLBS-SRV-FIAS-getServiceFeedback-003

## 1.4 Testcases for Service Definition Basic Facial Image Acquisition System (BFIAS)

This section contains testcases that are applicable to HLBS servers implementing the service Basic Facial Image Acquisition System (BFIAS).

### 1.4.1 Testcases for Operation getAllServices

**Test Case ID: TC-HLBS-SRV-BFIAS-getAllServices-001**

<i>Scope</i>	Testing the getAllServices operation on HLBS Server for Basic Facial Image Acquisition System.
<i>Applicability</i>	<p>The testcase is applicable for the following services:</p> <ul style="list-style-type: none"> <li>Basic Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>automatic</li> <li>no provision of pre-defined input data</li> <li>HTTP method: POST</li> <li>CTS acts as: Client</li> </ul>
<i>Description</i>	<b>Step</b> <b>Description / Expected Result</b>

**Test Case ID: TC-HLBS-SRV-BFIAS-getAllServices-001**

1	<p><i>Description:</i></p> <ul style="list-style-type: none"> <li>A HLBS response-message for the operation 'getAllServices' is sent. No parameters are provided.</li> </ul> <p><i>Expected Result:</i></p> <ul style="list-style-type: none"> <li>A HLBS response-message for the operation 'getAllServices' is received.</li> <li>The received hlbs message contains the value ac9317c9-46d5-4925-80c-f-0cb45d73ef3d at key service/id.</li> <li>The received hlbs message contains a value at key service/type that has the following property: Type is set to a vendor-specific value.</li> <li>The received hlbs message contains a value at key service/vendor that has the following property: Vendor is set to a vendor-specific value</li> <li>The received hlbs message contains the value Basic Facial Image Acquisition System at key service/name.</li> <li>The received hlbs message contains a value at key service/version that has the following property: Version corresponds to the respective TR Version</li> <li>The received hlbs message contains a value at key service/devices that has the following property: Devices is set to a vendor-specific value(s).</li> <li>There is a single element "service" for which all of the expected results above hold</li> </ul>
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**Table 1.90** Test Case ID: TC-HLBS-SRV-BFIAS-getAllServices-001

## 1.4.2 Testcases for Operation getServiceFeedback

**Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-001**

<i>Scope</i>	Testing the getServiceFeedback operation on HLBS Server for Basic Facial Image Acquisition System in manual mode.		
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>Basic Facial Image Acquisition System</li> </ul>		
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>The IUT is configured to work in 'manual' mode.</li> <li>The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> <li>A schema file the returned xml shall validate against is given.</li> </ul>		
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>automatic</li> <li>no provision of pre-defined input data</li> <li>HTTP method: POST</li> <li>CTS acts as: Client</li> </ul>		
<i>Description</i>	<table border="1"> <thead> <tr> <th>Step</th> <th>Description / Expected Result</th> </tr> </thead> <tbody> </tbody> </table>	Step	Description / Expected Result
Step	Description / Expected Result		

## Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-001

1

*Description:*

- A HLBS response-message for the operation 'getServiceFeedback' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.
timeout-ms	10000

Table 1.92 Parameters for the operation 'getServiceFeedback'.

*Expected Result:*

- A HLBS response-message for the operation 'getServiceFeedback' is received.
- The received hlbs message contains a value at key feedback that has the following property:  
feedback is of type hlbs:Feedback.
- The received hlbs message contains a value at key feedback/status that has the following properties:  
status is of type hlbs:FeedbackStatus.  
status is either "running", "waiting-for-input" or "finished".
- The received hlbs message contains the value Cancel at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value Capture at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value CropManually at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value RotateManually at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value AcceptImage at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value RejectImage at key feedback/userCommands/UserCommandInfo/userCommandId.
- The received hlbs message contains the value LiveStatus at key feedback/feedbackElements/key.
- The value of LiveStatus is a "Possible Value" according to the service definition in TR03121-2.
- The received hlbs message contains the value LiveImage at key feedback/feedbackElements/key.
- The received hlbs message contains a value at key feedback/feedbackElements/key[.="LiveImage"]/following-sibling::imageValue that has the following property:  
imageValue is of type "hlbsImage".
- The received hlbs message contains the value LiveCroppedFacialImage at key feedback/feedbackElements/key.
- The received hlbs message contains a value at key feedback/feedbackElements/key[.="LiveCroppedFacialImage"]/following-sibling::imageValue that has the following property:  
imageValue is of type "hlbsImage".

**Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-001**

- The received hlbs message contains the value QAFeedback at key feedback/feedbackElements/key.
- The received hlbs message contains a value at key feedback/feedbackElements/key[.="CurrentVerticalPosition"]/following-sibling::stringValue that has the following property:  
The returned string is base64-encoded XML that is valid according to the schema-file (see precondition).
- The received hlbs message contains the value QAEntireFacialImage at key feedback/feedbackElements/key.
- The received hlbs message contains a value at key feedback/feedbackElements/key[.="QAEntireFacialImage"]/following-sibling::imageValue that has the following property:  
imageValue is of type "hlbsImage".
- The received hlbs message contains the value QACroppedFacialImage at key feedback/feedbackElements/key.
- The received hlbs message contains a value at key feedback/feedbackElements/key[.="QACroppedFacialImage"]/following-sibling::imageValue that has the following property:  
imageValue is of type "hlbsImage".
- The received hlbs message contains a value at key feedback/feedbackElements/key[.="QACroppedFacialImage"]/following-sibling::imageValue/imageData that has the following property:  
The encoded value matches the "regionOfInterest" as defined by "feedback/feedbackElements/key[.="QAEntireFacialImage"]/following-sibling::imageValue/regionOfInterest".
- The received hlbs message contains the value QACroppedFacialImageRotation at key feedback/feedbackElements/key.
- The received hlbs message contains a value at key feedback/feedbackElements/key[.="QACroppedFacialImageRotation"]/following-sibling::floatValue that is greater or equal to 0 and less or equal to 360.

**Table 1.91** Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-001**Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-002**

<i>Scope</i>	Testing the getServiceFeedback operation for a HLBS Server implementing Basic Facial Image Acquisition System in manual mode using a sessionHandle that is unknown to the server.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Basic Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The IUT is configured to work in 'manual' mode.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description*

Step	Description / Expected Result
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**Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-002**

1

*Description:*

- A HLBS response-message for the operation 'getServiceFeedback' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle does not match the sessionHandle that refers to the service that is already being executed according to the precondition.
timeout-ms	10000

**Table 1.94** Parameters for the operation 'getServiceFeedback'.*Expected Result:*

- A HLBS fault-message 'InvalidSessionHandle' for the operation 'getServiceFeedback' is received.

**Table 1.93** Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-002**Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-003**

<i>Scope</i>	Testing the getServiceFeedback operation for a HLBS Server implementing Basic Facial Image Acquisition System in manual mode waiting for a timeout.
<i>Applicability</i>	The testcase is applicable for the following services: <ul style="list-style-type: none"> <li>• Facial Image Acquisition System</li> </ul>
<i>Preconditions</i>	<ul style="list-style-type: none"> <li>• The IUT (i.e. HLBS-Server) is running and configured to communicate with the CTS (HLBS test-tool).</li> <li>• A suitable service - device combination has been acquired, i.e. acquireService was called with a valid combination of serviceID and deviceID. A corresponding sessionHandle exists.</li> <li>• The IUT is configured to work in 'manual' mode.</li> <li>• The service that shall be tested is currently executed, i.e. beginServiceExecution has already been called.</li> </ul>
<i>CTS Mode</i>	<ul style="list-style-type: none"> <li>• automatic</li> <li>• no provision of pre-defined input data</li> <li>• HTTP method: POST</li> <li>• CTS acts as: Client</li> </ul>

*Description***Step**      **Description / Expected Result**

1

*Description:*

- A HLBS response-message for the operation 'getServiceFeedback' is sent. The following parameters are provided:

Key	Value/Property
sessionHandle	The sessionHandle matches the sessionHandle that refers to the service that is already being executed according to the precondition.
timeout-ms	0

**Table 1.96** Parameters for the operation 'getServiceFeedback'.*Expected Result:*

- A HLBS fault-message 'TimeoutOccured' for the operation 'getServiceFeedback' is received.

**Table 1.95** Test Case ID: TC-HLBS-SRV-BFIAS-getServiceFeedback-003

## 2 Testcases for Clients (CLI)

Testcases will be added in a future version of this document.