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# ITK Response Codes for Generic Receive

# Document management

## Revision History

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# 1. Introduction

## 1.1. Purpose of Document

This document is to clarify the use of the ITK3 response codes for used with the 'Generic Receive Capability'.

### 1.1.1. Background context

The ITK3 specification provides details of the full range of ITK3 response codes, these codes are generic in that they cover all perceived use cases. However, not all are appropriate for use with 'Generic Receive Capability'. This document provides further guidance on which codes **MUST**, **SHOULD** or **SHOULD NOT** be used. It will also provide links to further information that may be of use to suppliers building a solution to provide the 'Generic Receive Capability'.

## 1.2. This document is...

This document is to provide the necessary clarification on the use of the ITK3 response codes with the 'Generic Receive Capability'.

## 1.3. ITK3 Response Code Usage

The following sections show how the ITK3 response codes are used with the FHIR required codes within the ITK3 OperationOutcome.

| Value | Display  | Guidance and Conformance  | Required |
|-------|--|---|----------|
| 10001 | Handling Specification Error                           | <p>A generic error code which gives a minimum level of assurance that systems can share the minimum information relating to Handling Specification faults.</p> <p><b>The code '10001' is mandatory to be supported and returned to sender. Note a more specific code must be returned where one exists for the error.</b></p>                         | MUST     |
| 10002 | Infrastructure Level Response Value - Processing Error | <p>The handling specification flag for infrastructure level response is present but cannot be processed. For example, may be unreadable or contain an incorrect value. This code is mandatory to be supported.</p> <p><b>If the InfAckRequested value received is not 'true' or 'false' the response code '10002' must be returned to sender.</b></p> | MUST     |
| 10003 | Business Level Response Value - Processing Error       | <p>The handling specification flag for business level response is present but cannot be processed. For example, may be unreadable or contain an incorrect value. This code is mandatory to be supported.</p> <p><b>If the BusAckRequested value received is not 'true' or 'false' the response code '10003' must be returned to sender.</b></p>       | MUST     |

|       |   |   |      |
|-------|---|---|------|
| 10004 | Message Definition Value – Processing Error | <p>The handling specification value for Message Definition is present but cannot be processed. For example, may be unreadable or contain an incorrect value. This may also be returned when the message type is not supported (known) by the receiving system. This code must be supported, and the following values are applicable:</p>  | MUST |
|       |   | <p>Transfer of Care – Emergency Care eDischarge Implementation Guide 2.6.0-beta.</p> <p>The value must be:<br/> <a href="https://fhir.nhs.uk/STU3/MessageDefinition/ITK-EC-eDischarge-MessageDefinition-4">'https://fhir.nhs.uk/STU3/MessageDefinition/ITK-EC-eDischarge-MessageDefinition-4'</a></p>   |      |
|       |   | <p>Transfer of Care – Inpatient (Acute) Discharge eDischarge Implementation Guide 2.6.0-beta.</p> <p>The value must be:<br/> <a href="https://fhir.nhs.uk/STU3/MessageDefinition/ITK-eDischarge-MessageDefinition-4">'https://fhir.nhs.uk/STU3/MessageDefinition/ITK-eDischarge-MessageDefinition-4'</a></p>  |      |
|       |   | <p>Transfer of Care – Mental Health eDischarge Implementation Guide 2.6.0-beta.</p> <p>The value must be:<br/> <a href="https://fhir.nhs.uk/STU3/MessageDefinition/ITK-MH-eDischarge-MessageDefinition-4">'https://fhir.nhs.uk/STU3/MessageDefinition/ITK-MH-eDischarge-MessageDefinition-4'</a></p>  |      |
|       |   | <p>Transfer of Care – Outpatient Letter Implementation Guide 2.6.0-beta.</p> <p>The value must be:<br/> <a href="https://fhir.nhs.uk/STU3/MessageDefinition/ITK-OPL-MessageDefinition-4">'https://fhir.nhs.uk/STU3/MessageDefinition/ITK-OPL-MessageDefinition-4'</a></p>   |      |
|       |   | <p>Digital Medication - DM Immunization Implementation Guide 1.2.0-alpha</p> <p><a href="https://fhir.nhs.uk/STU3/MessageDefinition/ITK-DM-Immunization-MessageDefinition-1">'https://fhir.nhs.uk/STU3/MessageDefinition/ITK-DM-Immunization-MessageDefinition-1'</a></p>   |      |
|       |   | <p>Digital Medication - DM Immunization Implementation Guide 1.2.0-alpha</p> <p><a href="https://fhir.nhs.uk/STU3/MessageDefinition/ITK-DM-Immunization-MessageDefinition-1">'https://fhir.nhs.uk/STU3/MessageDefinition/ITK-DM-Immunization-MessageDefinition-1'</a></p> <p>If any other value is received the response code '10004' must be returned unless is an incorrect version, then follow the guidance below for response code '10005'</p> <p><b>[Note the GP writeback message string is TBA]</b></p> |      |

|       |   |  |  |
|-------|---|--|--|
| 10005 | Message Definition Version Value – Processing Error | <p>The handling specification for Message Definition is present but the version is not supported by the receiving system.</p> <p>If the string received is correct but the version is incorrect, the response code '10005' must be returned to sender</p>  | MUST   |
| 10007 | Sender Reference Value - Processing Error           | <p>The handling specification string for Sender Reference is present but cannot be processed. For example, may be unreadable, contain an incorrect value or the use of Sender Reference is not supported by receiving system.</p> <p>For the current use cases if any value other than the SenderReference default value of "None" is received the response code '10007' must be returned to sender.</p> |  |
| 10008 | Handling Specification Business Rule Error          | <p>The Handling Specification usage does not match business rules for included Payload. For example, an acknowledgement flag defined as mandatory by the Payload specification is missing.</p> <p>This error code should not be used for current use cases as there are no defined process for the correct identification of these rules.</p>  | Not applicable for current use cases, may be required for future use cases |
| 10009 | Unreadable message received                         | <p>A message has been received that is either corrupted or malformed and cannot be read by the receiving system.</p> <p>The response code '10009' must be supported and returned to sender.</p>  | MUST   |
| 10010 | Recipient Type - Processing Error                   | <p>The handling specification for Recipient Type is present but cannot be processed. For example, may be unreadable or contain an incorrect value.</p> <p>The response code '10010' must be supported and returned to sender.</p>  | MUST   |
| 20013 | Success   | <p>The Message has been processed successfully. A response will be returned stating the fact. However, the message may still fail after further processing and result in another response if the business level response request flag has been sent to "true".</p> <p>The response code '20013' must be supported must be returned to sender.</p>  | MUST   |
| 20001 | Unrecognised Recipient Person                       | <p>The person referred to as the recipient in the ITK3 MessageHeader when present is not recognised.</p> <p>The response code '20001' must be supported and must be returned to sender.</p>  | MUST   |

|       |  |   |   |
|-------|--|---|---|
| 20002 | Unrecognised Recipient Organisation              | <p>The organization referred to as the recipient in the ITK3 MessageHeader when present is not recognised.</p> <p><b>The response code '20002' must be supported and returned to sender.</b></p>  | MUST  |
| 20003 | Unrecognised Sender                              | <p>The organization or person referred to as the sender in the ITK3 MessageHeader is not recognised. Note: This code should not be used where the domain makes use of the "GP look-up" functionality in MESH.</p> <p><b>This error code should not be used for current use cases due to the potential use of GP look-up.</b></p>  | Not applicable for current use cases                                      |
| 20004 | Non Approved file type received as an attachment | <p>The Receiving system has received an attached file whose file type is not approved for the business domain.</p> <p><b>This error code should not be used for current use cases due to the fact no business domain has defined their non-approved attachment types.</b></p>   | Not applicable for current use cases, may be required in future use cases |
| 20005 | Unsupported file type received as an attachment  | <p>The Receiving system has received an attached file which it does not support.</p> <p>Note: all receiving systems must support at least .pdf file extensions.</p> <p><b>The response code '20005' must be supported and returned to sender.</b></p>   | MUST  |
| 20006 | ITK3 header validation failure                   | <p>The ITK3 header resources or elements are not correct or understandable. The ITK3 Bundle or ITK3 MessageHeader fail conformance against the FHIR schemas:</p> <p><a href="http://hl7.org/fhir/STU3/fhir-all-xsd.zip">http://hl7.org/fhir/STU3/fhir-all-xsd.zip</a></p> <p>or HAPI validation using the approved version of the HAPI libraries*</p> <p>*This will be the version used by the ITK3 Test Harness.</p>   | MUST  |
| 20007 | Duplicate Message received                       | <p>Bundle with this message identifier has already been processed. A Payload with this message identifier has already been received and processed by this recipient. A message with this message header.id has already been received and processed.</p> <p>As stated in the FHIR standard - An incoming message contains two identifiers: the Bundle.id and the <a href="#">MessageHeader.id</a>. Each time a new message is created, it SHALL be assigned an</p> | MUST  |

|       |   |  |      |
|-------|---|--|------|
|       |   | <p>identifier (MessageHeader.id) that is unique within that message stream. Note that since message streams are often merged with other streams, it is recommended that the identifier should be globally unique. This can be achieved by using a UUID or an OID. Each time a message is sent, the Bundle.id should be changed to a new value.</p> <p>See<br/> <a href="http://hl7.org/fhir/STU3/messaging.html">http://hl7.org/fhir/STU3/messaging.html</a></p> <p>The response code '20007' must be supported and returned to sender, and the message deemed to be a duplicate must be rejected regardless of the content of the payload.</p>  |      |
| 20008 | Duplicate Document received                 | <p>Bundle with this document identifier has already been processed. A Payload with this document identifier has already been received and processed by this recipient.</p> <p>As stated in the FHIR standard</p> <p>The document identifier (mandatory). This is found in <i>Bundle.identifier</i> and is globally unique for this instance of the document, and is never re-used, including for other documents derived from the same composition.</p> <p>See <a href="http://hl7.org/fhir/STU3/documents.html">http://hl7.org/fhir/STU3/documents.html</a></p> <p>The response code '20008' must be supported and returned to sender, and the document deemed to be a duplicate must be rejected regardless of the content of the payload.</p> | MUST |
| 20009 | Payload validation failure                  | <p>The payload is not correct or understandable. The payload fails conformance test against the FHIR schemas:</p> <p><a href="http://hl7.org/fhir/STU3/fhir-all-xsd.zip">http://hl7.org/fhir/STU3/fhir-all-xsd.zip</a></p> <p>or HAPI validation using the approved version of the HAPI libraries*</p> <p>*This will be the version used by the ITK3 Test Harness.</p> <p>The response code '20009' must be supported and returned to sender.</p>  | MUST |
| 20010 | Unrecognised Payload Recipient Organisation | <p>The Recipient Organisation identified in the Payload, is not supported by this End Point (Receiving System).</p> <p>The response code '20010' must be supported and returned to sender.</p>   | MUST |



|       |  |   |      |
|-------|--|---|------|
| 20011 | Unrecognised Payload Recipient Person                                | The Recipient person identified in the Payload, is not supported by this End Point (Receiving System).<br><br>The response code '20011' must be supported and returned to sender.   | MUST |
| 20012 | Unauthorised Sender  | The Receiving system identified in the Payload is configured to reject messages from unauthorised senders. This code should not be used where the domain makes use of the "GP look-up" functionality in MESH.<br><br>The response code 20012 should not be used | N/A  |
| 20014 | Unable to Process Replacement Document                               | A replacement document was received, but the receiver could not process the new document correctly and has therefore marked the new and original documents as "bad" on its system.<br><br>The response code '20014' must be supported and returned to sender.   | MUST |
| 30001 | Patient known here. (e.g. Patient is registered here)                | The response code '30001' must be supported and returned to sender.   | MUST |
| 30002 | Patient not known here. (aka 'patient record not present in system') | The response code '30002' must be supported and returned to sender.   | MUST |
| 30003 | Patient no longer at this clinical setting                           | The response code '30003' must be supported and returned to sender.   | MUST |