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Document History

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<td>Incorporation of CRs 20, 21, 22, 23 as approved by TADIG #50, and CR 25 as approved by e-mail. Note that CR 24 was not approved, but agreed to in principle by TADIG #50, subject to further detailed</td>
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<td>Incorporation of CRs 26, 27, 28, 29 and 30 as approved by TADIG #51. Note that CR 24 was withdrawn and reworked into CR 29 that was approved by TADIG #51.</td>
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<td>This version is the first version to specify RAP1.2. Incorporation of CR 32 as approved by TADIG #52 and EC. Incorporation of CRs 34-38 as approved by TADIG #53 and EC.</td>
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<td>2 Jun 2003</td>
<td>CR45 Editorial clarification to RAP1.2 (CR 44 was rejected).</td>
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<td>CRs 46-48 as approved by circulation.</td>
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<td>Jun 2004</td>
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<td>Minor CRs 054 and 055 as approved by TADIG #60.</td>
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1 Introduction

1.1 Scope of the Document

This document defines the logical and physical data that must be transferred between PMNs under the Returned Account Procedure (RAP).

The version of RAP supported by this document is RAP Specification Version Number 1, RAP Release Version Number 3 (RAP1.3). The implementation timetable for this version of RAP is such that all RAP files created on or after 1 May 2005 must conform to this standard (see PRD TD.34 for further information on implementation of new RAP standards).

The transfer medium is beyond the scope.

The primary commercial requirement for data to be transferred is defined in PRD BA.13.

1.2 Definition of Terms

This document follows the terminology defined within PRD BA.13.

1.3 Document Cross References

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| General Scenarios for the Transferred Account Procedure for Data Record Format Specification Version Number 03 (TAP3.9)
2 Rejects and Returns Process

The Rejects and Returns Process flow is described in PRD BA.13.

2.1 Physical Format ASN.1 Considerations

2.1.1 Encoding of Returned TAP Data within RAP Files

The returned ASN.1 group must be the original received from the VPMN, that is not re-encoded.

2.1.2 Encoding of Returned TAP Data within RAP Files

A RAP Acknowledgement File is not in any way related to the processing of the contents of the RAP file. “Decoded” should be interpreted as being able to have access to the full contents of the RAP file by using strict (that is not relaxed) ASN.1 BER decoding rules, the TD.32 ASN.1 grammar and the part of the TD.57 ASN.1 grammar imported in TD.32 (where everything has been switched to “optional”).

A file can be considered to be failing the decoding step when:

1. It violates any ASN.1 BER rule, or
2. It violates the ASN.1 TD.32 grammar (including the part imported from TD.57) for any of the reasons: Unknown tag / Non-repeating element occurring more than once / Tag invalid within context, or
3. Unknown combination of specification and release version of TAP or RAP used in the RAP file

If neither 1 nor 2 nor 3 above apply, the VPMN must send an acknowledgement file to the HPMN.

2.2 Private Interface Considerations

An operator may employ an agent, for example a Data Clearing House (DCH), to perform services such as validation of TAP data. This section describes how RAP files can be created and handled between the operator and its agent, that is in the ‘private interface’ between these entities. This is strictly voluntary and subject to agreement between the operator and its agent, and does not have any impact on the ‘public interface’.

To facilitate the creation and transfer of RAP data between the operator and its agent, an optional element in the RAP Batch Control Information, the Roaming Partner element, can be used.

Note: If this element is present on the ‘public interface’, the whole RAP file may be rejected due to an ASN.1 syntax error.

The following sections describe three scenarios where an operator and its agent interact in the Returned Account Procedure:
1. The VPMN sends a TAP file to its agent (VDCH), and the agent finds errors and sends a RAP file back to the VPMN.
2. The agent (VDCH) receives a RAP file from its customer’s roaming partner (or its agent), and the VDCH forwards the RAP file to its customer (VPMN).
3. The HPMN creates a RAP file for a TAP file it receives from its roaming partner; the HPMN sends the RAP file to its agent (HDCH), which then adjusts the RAP file to meet Public Interface requirements, and sends it to the VPMN or its agent.

**Note:** In all cases, file naming of RAP files and RAP Acknowledgement files follows the normal file naming conventions defined in Section 6.

### 2.2.1 VPMN Sends TAP to VDCH; VDCH Sends RAP Back to VPMN

In this scenario:

1. The VPMN sends a TAP file to its agent (VDCH).
2. The agent validates the file, finds errors, and creates a RAP file to return the errors to the VPMN.
3. The agent forwards the rest of the TAP file to the HPMN roaming partner or its agent (unless the errors were Fatal or Missing).

The TAP file created by VPMN and forwarded to the VDCH will be as normal:
- **Sender:** VPMN
- **Recipient:** HPMN
- **Sequence:** 1

The RAP file created by the VDCH will contain the optional Roaming Partner element:
- **Sender:** VDCH
- **Recipient:** VPMN
- **Sequence:** 1 (the next RAP sequence for this VDCH/VPMN pair)
- **Roaming Partner:** HPMN

File naming for the RAP file will follow the standards in Section 6 (Sender will be VDCH, Recipient will be VPMN).

The VDCH forwards the valid portion of the TAP file to the roaming partner (or its agent) as normal (unless the errors were Fatal or Missing):
- **Sender:** VPMN
- **Recipient:** HPMN
- **Sequence:** 1

In this scenario, note the following:
• The sequence numbering of the TAP file and RAP file are independent. In the example, it is coincidental that the sequence numbers are the same.

• When creating RAP files, the VDCH must create a separate RAP file for each of the VPMN’s roaming partners; that is, it cannot combine returned data for more than one HPMN into the same RAP file.

• The VPMN will need to adjust the value of the TAP file on the invoice it sends to its roaming partner, to reflect the amount that was actually forwarded to the partner.

• If the VPMN desires to send a RAP Acknowledgement File to its agent, it would include the following:
  - Sender: VPMN
  - Recipient: VDCH
  - Sequence: 1

Note: The Roaming Partner element is not contained in the RAP Acknowledgement file. File naming will follow the standards in Section 6 (Sender will be VPMN, Recipient will be VDCH).

2.2.2 VDCH Receives RAP from HPMN and Forwards to VPMN

In this scenario:

1. The VPMN has created a TAP file and sent it to its agent (VDCH).
2. The agent forwarded the TAP file to the HPMN’s agent or, if it doesn’t use an agent, directly to the HPMN.
3. The HPMN/agent discovers errors and creates a RAP file. It processes the remainder of the TAP file as normal (unless the errors were Fatal or Missing).
4. The HPMN/agent sends the RAP file to the VDCH.
5. The VDCH in turn sends the RAP file to the VPMN. The VDCH sends a RAP Acknowledgement file to the HPMN/agent.

In this case, the VDCH merely passes the RAP file to the VPMN. It makes no changes to the RAP file.

The TAP file created by the VPMN and forwarded to the VDCH will be as normal:

- Sender: VPMN
- Recipient: HPMN
- Sequence: 2

The VDCH forwards this file to the HPMN or its agent with the same Sender/Recipient/Sequence Number.

The RAP file created by the HPMN/agent will be as normal:

- Sender: HPMN
- Recipient: VPMN
- Sequence: 1 (the next RAP sequence number for this HPMN/VPMN pair)
- Roaming Partner: Not present

The HPMN/agent sends this RAP file to the VDCH. The remainder of the TAP file will be processed by the HPMN/agent as normal (unless the errors were Fatal or Missing).
Note: In this scenario, if the HPMN creates the RAP file, it’s assumed that it doesn’t use an agent (HDCH). See Section 2.2.3 for the scenario where the HPMN uses an agent (HDCH) and creates a RAP file.

The VDCH forwards the RAP file to the VPMN as-is; it makes no changes (the Roaming Partner element is not used):
- Sender: HPMN
- Recipient: VPMN
- Sequence: 1
- Roaming Partner: Not present

The VDCH creates and sends a RAP Acknowledgement file to the HPMN/agent as normal:
- Sender: VPMN
- Recipient: HPMN
- Sequence: 1

File naming for the RAP Acknowledgement file will follow the standards in Section 6 (Sender will be VPMN, Recipient will be HPMN).

In this scenario, note the following:
- The normal TD.32 rules are followed. The VDCH merely passes along to the VPMN the RAP file that was created by the HPMN or its agent.
- Financial adjustments are handled according to normal Rejects and Returns procedures. The HPMN is not liable for the charges returned to the VPMN.
- If the VPMN desires to send a RAP Acknowledgement file to its agent (not recommended), it would include the following:
  - Sender: VPMN
  - Recipient: HPMN
  - Sequence: 1

File naming for the RAP Acknowledgement file would follow the standards in Section 6 (Sender will be VPMN, Recipient will be HPMN).

2.2.3 HPMN Sends RAP to HDCH; HDCH Adjusts RAP and Sends to VPMN

In this scenario:
1. The HPMN has received a TAP file, via its agent, from its roaming partner (VPMN) or its agent.
2. The HPMN finds errors in the file and creates a RAP file. It forwards the RAP file to its agent (HDCH). It processes the remainder of the TAP file as normal (unless the errors were Fatal or Missing).
3. The HDCH makes adjustments to the RAP file to prepare it for the Public Interface, and forwards it to the VPMN or its agent.

The TAP file that was received by the HPMN was as follows:
- Sender: VPMN
- Recipient: HPMN
- Sequence: 3
The RAP file created by the HPMN will use the Roaming Partner element. The RAP file will be as follows:

- Sender: HPMN
- Recipient: HDCH
- Sequence: 1 (the next RAP sequence for this HPMN/HDCH pair)
- Roaming Partner: VPMN

File naming for the RAP file will follow the standards in Section 6 (Sender will be HPMN, Recipient will be HDCH). The HPMN forwards this RAP file to its agent (HDCH). It processes the remainder of the TAP file as normal (unless the errors were Fatal or Missing).

The HDCH adjusts the RAP file to prepare it for the Public Interface, changing the Recipient to the VPMN, changing the Sequence to the next number for that HPMN/VPMN pair, and removing the Roaming Partner element:

- Sender: HPMN
- Recipient: VPMN
- Sequence: 2 (the next RAP sequence for that HPMN/VPMN pair)
- Roaming Partner: Not present

File naming for the RAP file will follow the standards in Section 6 (Sender will be HPMN, Recipient will be VPMN). The HDCH forwards this RAP file to the VPMN or its agent.

In this scenario, note the following:

- When creating RAP files, the HPMN must create a separate RAP file for each of its roaming partners; that is, it cannot combine returned data for more than one VPMN into the same RAP file.
- If the HDCH desires to send a RAP Acknowledgement File to the HPMN, it would include the following:
  - Sender: HDCH
  - Recipient: HPMN
  - Sequence: 1

  **Note:** The Roaming Partner element is not contained in the RAP Acknowledgement file. File naming will follow the standards in Section 6 (Sender will be HDCH, Recipient will be HPMN).

- Financial adjustments will be handled according to normal Rejects and Returns procedures. The HPMN is not liable for the charges returned to the VPMN.

### 3 Logical Structures

#### 3.1 RAP File

##### 3.1.1 Return Batch
Figure 1  Return Batch Logical Structure

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<td>Missing Return</td>
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<td>Severe Return</td>
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<td>Call Event Details</td>
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<td>Error Detail</td>
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<td>Figure 3</td>
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<tr>
<td>Operator Specific Information</td>
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<td>RAP Audit Control Information</td>
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3.1.2 RAP Batch Control Information

**Figure 2** RAP Batch Control Information Logical Structure

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### 3.1.3 Fatal Return

![Fatal Return Logical Structure Diagram](image-url)

**Figure 3: Fatal Return Logical Structure**

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<td>Appropriate TAP Standard</td>
</tr>
<tr>
<td>Batch Control Information</td>
<td></td>
<td>Appropriate TAP Standard</td>
</tr>
<tr>
<td>Accounting Information</td>
<td></td>
<td>Appropriate TAP Standard</td>
</tr>
<tr>
<td>Network Information</td>
<td></td>
<td>Appropriate TAP Standard</td>
</tr>
<tr>
<td>VAS Information</td>
<td></td>
<td>Appropriate TAP Standard</td>
</tr>
<tr>
<td>Message Description Information</td>
<td></td>
<td>Appropriate TAP Standard</td>
</tr>
<tr>
<td>Audit Control Information</td>
<td></td>
<td>Appropriate TAP Standard</td>
</tr>
<tr>
<td>Error Detail</td>
<td></td>
<td>Figure 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Figure 4</td>
</tr>
</tbody>
</table>
3.1.4 Error Detail

Figure 4: Error Detail Logical Structure

<table>
<thead>
<tr>
<th>Group Element Name</th>
<th>Also Occurs In</th>
<th>Detail Shown In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error Detail</td>
<td>Figure 1</td>
<td>Figure 1</td>
</tr>
<tr>
<td>Error Context</td>
<td>Figure 3</td>
<td></td>
</tr>
</tbody>
</table>
### 3.1.5 RAP Audit Control Information

**Figure 5: RAP Audit Control Information Logical Structure**

<table>
<thead>
<tr>
<th>Group Element Name</th>
<th>Also Occurs In</th>
<th>Detail Shown In</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAP Audit Control Information</td>
<td>Figure 1</td>
<td></td>
</tr>
<tr>
<td>Return Summary</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Figure 5: RAP Audit Control Information Logical Structure**

- **Return Summary**
  - C
  - R
- **Total Severe Return Value**
  - M
- **Return Details Count**
  - M
- **Operator Specific Information**
  - O
  - R
- **File Sequence Number**
  - M
- **Severe Return Value**
  - C
3.2 RAP Acknowledgement File

3.2.1 Acknowledgement File

Figure 6: Acknowledgement File Logical Structure

<table>
<thead>
<tr>
<th>Group Element Name</th>
<th>Also Occurs In</th>
<th>Detail Shown In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acknowledgement File</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4 Data Dictionary

This data dictionary gives a listing of all data items unique to the Returned Account Procedure (RAP). As well as providing values for the items, it describes conditionality in greater detail.

The data dictionary also contains entries and cross-references for all other data items and groups referenced.

Finally, the data dictionary contains the appropriate validation rules that must be used to report errors within a RAP File or Acknowledgement File.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Information</td>
<td>The specific TAP file accounting information that caused the fatal error.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Mandatory in the Accounting Information Error group.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td>Accounting Information Error</td>
<td>The group identifies Accounting Information related fatal errors.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Present within group Fatal Return where the Error Detail relates to a fatal error at TAP group Accounting Information level.</td>
</tr>
<tr>
<td>Ack. File Available Timestamp</td>
<td>The date and time the Acknowledgement file was made available to the Recipient PMN. The time is given in the local time of the Sending PMN. There must be a UTC Time OffSet associated with this field.</td>
</tr>
<tr>
<td></td>
<td>Physically this will normally be the timestamp when the file was transferred to the Recipient PMN, that is start of push, however on some systems this will be the timestamp when the file was made available to be pulled.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Mandatory in the group Acknowledgement File.</td>
</tr>
<tr>
<td>Ack. File Creation Timestamp</td>
<td>The timestamp at which the Acknowledgement File was created.</td>
</tr>
<tr>
<td></td>
<td>The time is given in the local time of the Sending PMN. There must be a UTC Time OffSet associated with this field.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Mandatory in the group Acknowledgement File.</td>
</tr>
<tr>
<td>Acknowledgement File</td>
<td>In the case of a RAP file transmission, an Acknowledgement file is sent by the VPMN to the HPMN to acknowledge the receipt of a RAP file.</td>
</tr>
<tr>
<td>Audit Control Information</td>
<td>The specific TAP file audit control information that caused the fatal error.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Mandatory in the Audit Control Information Error group.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td>Element</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Audit Control Information Error</strong></td>
<td>The group identifies Audit Control Information related fatal errors.</td>
</tr>
<tr>
<td><strong>Conditionality:</strong></td>
<td>Present within group Fatal Return where the Error Detail relates to a fatal error at TAP group Audit Control Information level.</td>
</tr>
<tr>
<td><strong>Batch Control Error</strong></td>
<td>The group identifies Batch Control Information related fatal errors.</td>
</tr>
<tr>
<td><strong>Conditionality:</strong></td>
<td>Present within group Fatal Return where the Error Detail relates to a fatal error at TAP group Batch Control Information level.</td>
</tr>
<tr>
<td><strong>Batch Control Information</strong></td>
<td>The specific TAP file batch control information that caused the fatal error.</td>
</tr>
<tr>
<td><strong>Conditionality:</strong></td>
<td>Mandatory in the Batch Control Information Error group.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td><strong>Call Event Details</strong></td>
<td>The group contains details of the call/event that contains the reported error (see Error Detail).</td>
</tr>
<tr>
<td><strong>Conditionality:</strong></td>
<td>Mandatory within group Severe Return. When a Call Event Detail is returned with more than one severe error it must only be returned once. This means that it must not be present more than once within a given RAP file or present in more than one RAP file.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> A resubmitted (corrected) Call Event Detail is deemed to be a new call/event. If more than one error is found in the Call Event Detail it is reported by the repeating group Error Detail.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td><strong>End Missing Sequence Number Range</strong></td>
<td>Part of the Return Detail in the RAP file when sequence numbers are missing. This will be the last sequence number missing from the series. This is a conditional field used when multiple TAP files are missing.</td>
</tr>
<tr>
<td></td>
<td><strong>Range of valid values:</strong> 00001 – 99999</td>
</tr>
<tr>
<td></td>
<td><strong>Conditionality:</strong> Present if there is a range of missing sequence numbers in the Missing Return information.</td>
</tr>
<tr>
<td><strong>Error Code</strong></td>
<td>Code associated to the error found for a particular field. Error codes and validation processes are defined in the appropriate TAP standard.</td>
</tr>
<tr>
<td><strong>Conditionality:</strong></td>
<td>Mandatory with in the repeating group Error Detail.</td>
</tr>
<tr>
<td>Element</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Error Context</strong></td>
<td>Group with information about the full context of the item in error. There will be one occurrence of this group for each level within the TAP file starting at the ‘TransferBatch’ or ‘Notification’ (at level 1) and ending with information of the item in error (at level n). The repeating set of records may represent either the “logical” or “physical” structure of the file. When a “physical” path is specified ALL tags present will be included from Tag 1 (Data Interchange) down to (and including) the item in error. A “logical” path will include only Tag numbers, which have corresponding logical entities within the Logical Structure (diagrams). <strong>Conditionality:</strong> Mandatory for all errors with the exception of ASN.1 errors (error codes 50-59 as specified in TD.57). <strong>Note:</strong> Error codes 142, 250 through 257, 260 and 261 (duplicate call events, Call age) can be represented using the call event detail (for example TransferBatch.CallEventDetailList.CallEventDetail).</td>
</tr>
<tr>
<td><strong>Error Detail</strong></td>
<td>Error Detail is a repeating group identifying the errored item and offset, where applicable, together with the Error Code. Optionally, the group will also contain a repeated occurrence of Error Context. <strong>Conditionality:</strong> Mandatory within groups – Severe Return – Transfer Batch Error – Notification Error – Batch Control Error – Accounting Information Error – Network Information Error – VAS Information Error – Message Description Error – Audit Control Information Error where one occurrence must be present for each error being reported.</td>
</tr>
<tr>
<td><strong>Fatal Return</strong></td>
<td>Constitutes a TAP file rejected in its entirety and a subset of information describing the fatal error is returned to the VPMN. For a fatal return only specific information pertaining to the fatal error is returned to the VPMN and not the entire file. <strong>Conditionality:</strong> Present within the group Return Detail if the return resulted from a fatal error. If a fatal error is being returned, Fatal Return is Mandatory.</td>
</tr>
<tr>
<td>Element</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>File Sequence Number</td>
<td>A unique reference which identifies the erroneous TAP file.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Mandatory within groups</td>
</tr>
<tr>
<td></td>
<td>Fatal Return</td>
</tr>
<tr>
<td></td>
<td>Severe Return</td>
</tr>
<tr>
<td></td>
<td>Return Summary.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td>File Type Indicator</td>
<td>Indicates the type of data contained within the erroneous TAP file. The type of data could be either test or chargeable data.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Present within groups</td>
</tr>
<tr>
<td></td>
<td>RAP Batch Control Information</td>
</tr>
<tr>
<td></td>
<td>Acknowledgement File</td>
</tr>
<tr>
<td></td>
<td>where the file represents test data only, not present where the data is 'live' chargeable data.</td>
</tr>
<tr>
<td></td>
<td><em>Values:</em></td>
</tr>
<tr>
<td></td>
<td>T Test Data</td>
</tr>
<tr>
<td></td>
<td>Reserved for proprietary use:</td>
</tr>
<tr>
<td></td>
<td>V</td>
</tr>
<tr>
<td></td>
<td>H</td>
</tr>
<tr>
<td></td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td>Item Level</td>
<td>Indicates the ASN.1 level of the respective item that specifies the context of the error. The level starts with 1 for ‘TransferBatch’ or ‘Notification’ and increases by 1 at each group/item that follows in the context. All levels must be in consecutive order; no level may be omitted.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Must be present within the Error Context Group.</td>
</tr>
<tr>
<td></td>
<td><em>Values:</em></td>
</tr>
<tr>
<td></td>
<td>&gt; 0</td>
</tr>
<tr>
<td>Item Occurrence</td>
<td>The occurrence of the path item at the specified level. Starts with one. For example the 4th call event detail within a batch would be specified with occurrence of 4.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Must be present when the item is repeated (SEQUENCE OF).</td>
</tr>
<tr>
<td>Element</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Item OffSet</strong></td>
<td>The OffSet in bytes from the beginning of the file to the start of the item in error, beginning with an offset of zero.</td>
</tr>
<tr>
<td></td>
<td>The Item OffSet must always refer to the original byte stream from the original TAP file.</td>
</tr>
<tr>
<td><strong>Conditionality</strong></td>
<td>Present when available.</td>
</tr>
<tr>
<td><strong>Message Description Error</strong></td>
<td>The group identifies Message Description Information related fatal errors.</td>
</tr>
<tr>
<td><strong>Conditionality</strong></td>
<td>Present within group Fatal Return where the Error Detail relates to a fatal error at TAP group Message Description Information level.</td>
</tr>
<tr>
<td><strong>Message Description Information</strong></td>
<td>The specific TAP file Message Description Information that caused the fatal error.</td>
</tr>
<tr>
<td><strong>Conditionality</strong></td>
<td>Mandatory in the Message Description Error group.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td><strong>Missing Return</strong></td>
<td>Attributes used to describe missing TAP file sequence numbers.</td>
</tr>
<tr>
<td><strong>Conditionality</strong></td>
<td>Present within the group Return Detail if the return resulted from a missing file error.</td>
</tr>
<tr>
<td><strong>Network Information</strong></td>
<td>The specific TAP file network information that caused the fatal error.</td>
</tr>
<tr>
<td><strong>Conditionality</strong></td>
<td>Mandatory in the Network Information Error group.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td><strong>Network Information Error</strong></td>
<td>The group identifies Network Information related fatal errors.</td>
</tr>
<tr>
<td><strong>Conditionality</strong></td>
<td>Present within group Fatal Return where the Error Detail relates to a fatal error at TAP group Network Information level.</td>
</tr>
<tr>
<td><strong>Notification</strong></td>
<td>The specific TAP file Notification that caused the fatal error.</td>
</tr>
<tr>
<td><strong>Conditionality</strong></td>
<td>Mandatory in the Notification Error group.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td>Element</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Notification Error</td>
<td>The group identifies Notification related fatal errors.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Present within group Fatal Return where the Error Detail relates to a fatal error at TAP group Notification level.</td>
</tr>
<tr>
<td>Operator Specific Information</td>
<td>This is an optional, repeating item that will contain information that is beyond the scope of TAP/RAP and has been bilaterally agreed. The content of the item is defined by bilateral agreement and may vary according to the context. In addition, this field can be used to provide additional information to assist in the investigation and quick fix of the reported error. For further information, see the Annex.</td>
</tr>
<tr>
<td>Path Item Id</td>
<td>Tag Id of the item building the path to the item in error. The Tag Id refers to Application Tag Number as defined in the ASN.1 definition in TD.57 and not to the physical tag in the encoded file. Example: For “MobileOriginatedCall” the value is “9”.</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Must be present within the Error Context Group.</td>
</tr>
<tr>
<td>RAP Audit Control Information</td>
<td>The group identifies the end of the Transfer batch. All items are mandatory except Operator Specific Information, which is optional</td>
</tr>
<tr>
<td></td>
<td><em>Conditionality:</em> Mandatory within group Return Batch.</td>
</tr>
<tr>
<td>Element</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| RAP Batch Control Info              | All items are mandatory except the following:  

- File Type Indicator which is conditional (indicating test data)
- Roaming Partner which is optional (can only be present when bilaterally agreed)
- Operator Specific Information which is optional

*Conditionality:*  
Mandatory within group Return Batch. |
| RAP File Available Timestamp        | The date and time the RAP file was made available to the Recipient PMN.  
The time is given in the local time of the sender PMN. There must be a UTC Time OffSet associated with the item.  
Physically this will normally be the timestamp when the file was transferred to the Recipient PMN, that is start of push, however on some systems this will be the timestamp when the file was made available to be pulled.  
*Conditionality:*  
Mandatory within the group RAP Batch Control Information. |
| RAP File Creation Timestamp         | The timestamp at which the RAP file was created. The time is given in the local time of the sender PMN. There must be a UTC Time OffSet associated with the item.  
*Conditionality:*  
Mandatory within group RAP Batch Control Information. |
| RAP File Sequence Number           | A unique reference that identifies each RAP data interchange sent by one PMN to another, specific, PMN.  
The sequence number starts at 1 and is incremented by one for each subsequent Return Batch sent by the Sender PMN to a particular Recipient PMN.  
*Note:* In case of retransmission for any reason this number is not incremented.  
RAP file sequence numbers are independent from TAP file sequence numbers.  
*Conditionality:*  
Mandatory within groups  
RAP Batch Control Information  
Acknowledgement File  
*Range:*  
00001 – 99999  
See appropriate TAP standard for full definition and content. |
<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAP Release Version Number</td>
<td>Indicates the RAP release version within the RAP Specification Version Number.</td>
</tr>
<tr>
<td></td>
<td><strong>Conditionality:</strong></td>
</tr>
<tr>
<td></td>
<td>Mandatory within item RAP Specification Version Number.</td>
</tr>
<tr>
<td></td>
<td><strong>Values:</strong></td>
</tr>
<tr>
<td></td>
<td>3 for RAP1.3</td>
</tr>
<tr>
<td>RAP Specification Version Number</td>
<td>To enable a PMN to encode and/or read a RAP file it is necessary to uniquely identify the format. This is achieved through the RAP Specification Version Number.</td>
</tr>
<tr>
<td></td>
<td>There must be a RAP Release Version Number present within this item.</td>
</tr>
<tr>
<td></td>
<td><strong>Conditionality:</strong></td>
</tr>
<tr>
<td></td>
<td>Mandatory within group RAP Batch Control Information.</td>
</tr>
<tr>
<td></td>
<td><strong>Values:</strong></td>
</tr>
<tr>
<td></td>
<td>1 for RAP version 1</td>
</tr>
<tr>
<td>Recipient</td>
<td>A unique identifier used to determine to whom (normally a PMN) the data is being sent, that is the Recipient.</td>
</tr>
<tr>
<td></td>
<td>This can also represent a third party such as a clearinghouse, but only if bilaterally agreed.</td>
</tr>
<tr>
<td></td>
<td><strong>Derivation:</strong></td>
</tr>
<tr>
<td></td>
<td>GSM Association PRD TD.13: PMN Naming Conventions.</td>
</tr>
<tr>
<td></td>
<td><strong>Conditionality:</strong></td>
</tr>
<tr>
<td></td>
<td>Mandatory within groups</td>
</tr>
<tr>
<td></td>
<td>RAP Batch Control Information</td>
</tr>
<tr>
<td></td>
<td>Acknowledgement File</td>
</tr>
<tr>
<td></td>
<td><strong>Example content:</strong></td>
</tr>
<tr>
<td></td>
<td>GBRCN</td>
</tr>
<tr>
<td></td>
<td>GBRVF</td>
</tr>
<tr>
<td></td>
<td>DEUD1</td>
</tr>
<tr>
<td></td>
<td>DEUD2</td>
</tr>
<tr>
<td><strong>Element</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Release Version Number</td>
<td>Indicates the release version within the Specification Version Number of the TAP file being returned. A RAP file cannot contain multiple TAP release versions and/or specification version numbers.</td>
</tr>
<tr>
<td></td>
<td><strong>Conditionality:</strong> Must be present within item Specification Version Number where the Return Detail contains Severe Return or a Fatal Return with errors other than Transfer Batch Error.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td>Return Batch</td>
<td>Consists of RAP Batch Control Information, Return Detail, and RAP Audit Control Information. All information for these attributes are obtained from the original TAP file submitted and the validation process.</td>
</tr>
<tr>
<td>Return Detail</td>
<td>Must consist of Missing Return, Fatal Return, or Severe Return depending on the type of error found in the TAP file. One of these return types must be found in the Return detail.</td>
</tr>
<tr>
<td></td>
<td><strong>Conditionality:</strong> Mandatory within the group Return Batch.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> From RAP1.3 this group cannot be repeated.</td>
</tr>
<tr>
<td>Return Details Count</td>
<td>Number of returned details in the RAP file.</td>
</tr>
<tr>
<td></td>
<td><strong>Conditionality:</strong> Mandatory within the group RAP Audit Control Information.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> From RAP1.3 the group Return Detail cannot be repeated, so this field must always be 1.</td>
</tr>
<tr>
<td>Return Summary</td>
<td>A group in the RAP Audit Control Information summarising the data being returned to the VPMN for each TAP file referenced within Severe Return.</td>
</tr>
<tr>
<td></td>
<td><strong>Conditionality:</strong> There will only be one occurrence for the TAP file referenced by Severe Returns within the RAP file.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> From RAP1.3 only one TAP file can be referenced within Severe Return, and this group must therefore not be repeated.</td>
</tr>
<tr>
<td>Element</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| **Roaming Partner** | A unique identifier used to determine the roaming partner in a RAP file, when the Sender or Recipient element is populated with a PMN Code that does not belong to an operator (for example the Sender or Recipient is populated with the PMN Code of a third party such as a clearinghouse). This element can be present only if explicitly agreed to by the receiving operator.  
  
  **Derivation:**  
  GSM Association PRD TD.13: PMN Naming Conventions.  
  
  **Conditionality:**  
  Optional within group RAP Batch Control Information.  
  
  **Example content:**  
  GBRCN  
  GBRVF  
  DEUD1  
  DEUD2 |
| **Sender**     | A unique identifier used to determine the Sender (normally a PMN) of the data.  
  This can also represent a third party such as a clearinghouse, but only if bilaterally agreed.  
  
  **Derivation:**  
  GSM Association PRD TD.13: PMN Naming Conventions.  
  
  **Conditionality:**  
  Mandatory within groups  
  RAP Batch Control Information  
  Acknowledgement File.  
  
  **Example content:**  
  GBRCN  
  GBRVF  
  DEUD1  
  DEUD2 |
| **Severe Return** | Call event details Severe Return allows the ability to return specific call event details that fail the validation process from the TAP file without rejecting the entire file.  
  
  **Conditionality:**  
  Mandatory only when returning call event details. |
### Element Description

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Severe Return Value</strong></td>
<td>Value of the Call Event Details being rejected with severe errors. The Severe Return Value relates directly to the File Sequence Number in the Return Summary information. If the value of the Call Event Details cannot be determined, for example due to syntax errors in the charges, that Call Event Detail will be counted as zero in calculating the Severe Return Value.</td>
</tr>
<tr>
<td><strong>Conditionality:</strong></td>
<td>Not present when the associated File Sequence Number relates to a fatal or missing return.</td>
</tr>
<tr>
<td><strong>Note:</strong></td>
<td>Number of decimal places used to present Severe Return Value relates to the number of decimal places as specified in Accounting Information of the respective TAP file.</td>
</tr>
<tr>
<td></td>
<td>Note: From RAP1.3 only one TAP file can be referenced within Severe Return.</td>
</tr>
<tr>
<td><strong>Specification Version Number</strong></td>
<td>The specification version number of the TAP file being exchanged between the VPMN and HPMN.</td>
</tr>
<tr>
<td><strong>Conditionality:</strong></td>
<td>Must be present within group RAP Batch Control Information where the Return Detail contains Severe Return or a Fatal Return with errors other than Transfer Batch Error.</td>
</tr>
<tr>
<td></td>
<td>See appropriate TAP standard for full definition and content.</td>
</tr>
<tr>
<td><strong>Start Missing Sequence Number Range</strong></td>
<td>Part of the Return Detail in the RAP file when (a) TAP file sequence number(s) is/are missing. This is a mandatory field containing the missing sequence number, or when multiple TAP files are missing, the first sequence number of the series of missing TAP files.</td>
</tr>
<tr>
<td><strong>Range of valid values:</strong></td>
<td>00001 – 99999</td>
</tr>
<tr>
<td><strong>Conditionality:</strong></td>
<td>Mandatory within the group Missing Return.</td>
</tr>
<tr>
<td><strong>Element</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Total Severe Return Value</strong></td>
<td>Total value of the severe returns within the RAP file. The value of this item is derived from the sum of the Severe Return Value items within groups Return Summary. If there are no occurrences of Severe Return Value present then Total Severe Return Value will be zero.</td>
</tr>
<tr>
<td><strong>Transfer Batch Error</strong></td>
<td>The group identifies Transfer Batch related fatal errors.</td>
</tr>
<tr>
<td><strong>UTC Time Offset</strong></td>
<td>All timestamps are in the local time of the Sender PMN. So that the time can be equated to time in the Recipient PMN, the difference between local time and UTC time must be supplied.</td>
</tr>
<tr>
<td></td>
<td>Derivation: UTC Time Offset = Local Time minus UTC Time</td>
</tr>
<tr>
<td><strong>VAS Information Error</strong></td>
<td>The group identifies VAS Information related fatal errors.</td>
</tr>
</tbody>
</table>

**Note:** From RAP1.3, only one TAP file can be referenced within Severe Return, and the Total Severe Return Value will therefore either be the same as the Severe Return Value for the TAP file referenced within Severe Return, or zero if the RAP file contains missing or fatal returns.

**Conditionality:**
- Mandatory within the group RAP Audit Control Information.
### 5 Physical Format

This section defines the physical format for the Return Batch and the Acknowledgement File. In accordance with the definitions for the appropriate TAP standard, the physical format uses ASN.1. The specification is complimentary to the definition of the physical TAP format in that data types and groups defined by TAP are referenced within this specification and that the ASN.1 tags for the data types added for the RAP are distinct from the tags used for TAP, so that by merging both ASN.1 specifications, a new ASN.1 specification which covers both RAP and TAP is obtained.

**Note:** All elements in the TAP specification should be made “OPTIONAL” during the creation of the RAP file. This will make it possible to return structure errors in the TAP file. The returned ASN.1 group must be the original received from the VPMN, that is not re-encoded.

**Note:** According to the principles laid in TAP specifications, the following must apply for the return batch:

- The size of encoded Integers in the return batch must not exceed 4 bytes except for the data items representing Severe Return Value and Total Severe Return Value.
- The maximum size of the encoded return batch is determined by the maximum size of a TAP file. Please note that the size of a RAP file may be slightly larger than the size of the related TAP file.

The following ranges for tags are currently used:

<table>
<thead>
<tr>
<th>Tag range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>Reserved for TAP</td>
</tr>
<tr>
<td>7-8</td>
<td>In Use for both TAP and RAP</td>
</tr>
<tr>
<td>9-142</td>
<td>Reserved for TAP</td>
</tr>
<tr>
<td>143</td>
<td>In Use for both TAP and RAP</td>
</tr>
<tr>
<td>144-237</td>
<td>Reserved for TAP</td>
</tr>
<tr>
<td>238</td>
<td>In Use for both TAP and RAP</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>Usage</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------</td>
</tr>
<tr>
<td>239-511</td>
<td>Reserved for TAP</td>
</tr>
<tr>
<td>512-513</td>
<td>In Use for RAP</td>
</tr>
<tr>
<td>514</td>
<td>Reserved for RAP</td>
</tr>
<tr>
<td>515-552</td>
<td>In Use for RAP</td>
</tr>
<tr>
<td>553-1023</td>
<td>Reserved for RAP</td>
</tr>
</tbody>
</table>
The following ASN.1 specification defines the abstract syntax for the Rejects and Returns Returned Accounts Procedure.

The specification is structured as follows:

1. Structure of a RAP batch
2. Structure of the individual RAP records
3. RAP data items and groups of data items

```
RAP-0103 DEFINITIONS IMPLICIT TAGS ::= BEGIN

-- NOTE: As the RAP can be used to report rejections of any valid TAP release this specification does not indicate explicitly the TAP release to be included.
-- Please replace XX in 'FROM TAP-03XX' with the appropriate TAP release version: for example 02, 04, 10, 11, ...
-- making all TAP fields OPTIONAL

IMPORTS AbsoluteAmount, AccountingInfo, AuditControlInfo,
BatchControlInfo, CallEventDetail, DateTimeLong,
FileSequenceNumber, FileTypeIndicator,
MessageDescription, MessageDescriptionCode, NetworkInfo,
Notification, NumberString, OperatorSpecInformation,
PlmnId, RapFileSequenceNumber, Recipient, ReleaseVersionNumber,
Sender, SpecificationVersionNumber
-- For TAP releases earlier than TAP3.11
-- uncomment the following line
-- ,VasCode, VasDescription, VasShortDescription
FROM TAP-03XX;

-- Structure of a RAP batch

RapDataInterChange ::= CHOICE
{
  returnBatch    ReturnBatch,
  acknowledgement Acknowledgement
}

ReturnBatch ::= [APPLICATION 534] SEQUENCE
{
  rapBatchControlInfoRap   RapBatchControlInfo,
  returnDetails      ReturnDetailList,
  rapAuditControlInfo     RapAuditControlInfo
}

Acknowledgement ::= [APPLICATION 535] SEQUENCE
{
  sender    Sender,
  recipient Recipient,
  rapFileSequenceNumber    RapFileSequenceNumber,
  ackFileCreationTimeStamp AckFileCreationTimeStamp,
  ackFileAvailableTimeStamp AckFileAvailableTimeStamp,
  fileTypeIndicator FileTypeIndicator OPTIONAL,
}
operatorSpecList  OperatorSpecList  OPTIONAL
}

ReturnDetailList ::= [APPLICATION 536] SEQUENCE OF ReturnDetail

ReturnDetail ::= CHOICE
{
  missingReturn  MissingReturn,
  fatalReturn    FatalReturn,
  severeReturn   SevereReturn
}

-- Structure of the individual RAP records
--

RapBatchControlInfo ::= [APPLICATION 537] SEQUENCE
{
  sender       Sender,
  recipient    Recipient,
  rapFileSequenceNumber  RapFileSequenceNumber,
  rapFileCreationTimeStamp  RapFileCreationTimeStamp,
  rapFileAvailableTimeStamp  RapFileAvailableTimeStamp,
  specificationVersionNumber  SpecificationVersionNumber  OPTIONAL,
  releaseVersionNumber     ReleaseVersionNumber      OPTIONAL,
  rapSpecificationVersionNumber RapSpecificationVersionNumber,
  rapReleaseVersionNumber    RapReleaseVersionNumber,
  fileTypeIndicator     FileTypeIndicator      OPTIONAL,
  roamingPartner      RoamingPartner       OPTIONAL,
  operatorSpecList     OperatorSpecList      OPTIONAL
}

MissingReturn ::= [APPLICATION 538] SEQUENCE
{
  startMissingSeqNumber StartMissingSeqNumber,
  endMissingSeqNumber  EndMissingSeqNumber OPTIONAL,
  operatorSpecList  OperatorSpecList  OPTIONAL
}

FatalReturn ::= [APPLICATION 539] SEQUENCE
{
  fileSequenceNumber  FileSequenceNumber,
  transferBatchError TransferBatchError OPTIONAL,
  notificationError   NotificationError OPTIONAL,
  batchControlError   BatchControlError OPTIONAL,
  accountingInfoError AccountingInfoError OPTIONAL,
  networkInfoError    NetworkInfoError OPTIONAL,
  -- For TAP releases earlier than TAP3.11
  -- uncomment the following line
  -- vASInformationError VASInformationError OPTIONAL,
  messageDescriptionError MessageDescriptionError OPTIONAL,
  auditControlInfoError AuditControlInfoError OPTIONAL,
  operatorSpecList     OperatorSpecList  OPTIONAL
}

SevereReturn ::= [APPLICATION 540] SEQUENCE
{
  fileSequenceNumber  FileSequenceNumber,
  callEventDetail    CallEventDetail,
errorDetail ErrorDetailList,
operatorSpecList OperatorSpecList OPTIONAL
}

RapAuditControlInfo ::= [APPLICATION 541] SEQUENCE
{
    returnSummaryList ReturnSummaryList OPTIONAL,
totalSevereReturnValue TotalSevereReturnValue,
returnDetailsCount ReturnDetailsCount,
operatorSpecList OperatorSpecList OPTIONAL
}

-- RAP data items and groups of data items
--

AccountingInfoError ::= [APPLICATION 512] SEQUENCE
{
    accountingInfo AccountingInfo,
    errorDetail ErrorDetailList
}

AuditControlInfoError ::= [APPLICATION 513] SEQUENCE
{
    auditControlInfo AuditControlInfo,
    errorDetail ErrorDetailList
}

AckFileAvailableTimeStamp ::= [APPLICATION 515] DateTimeLong

AckFileCreationTimeStamp ::= [APPLICATION 516] DateTimeLong

BatchControlError ::= [APPLICATION 517] SEQUENCE
{
    batchControlInfo BatchControlInfo,
    errorDetail ErrorDetailList
}

EndMissingSeqNumber ::= [APPLICATION 518] FileSequenceNumber

ErrorCode ::= [APPLICATION 519] INTEGER

ErrorContext ::= [APPLICATION 545] SEQUENCE
{
    pathItemId PathItemId,
    itemOccurrence ItemOccurrence OPTIONAL,
    itemLevel ItemLevel
}

ErrorContextList ::= [APPLICATION 549] SEQUENCE OF ErrorContext

ErrorDetail ::= [APPLICATION 521] SEQUENCE
{
    errorContext ErrorContextList OPTIONAL,
    itemOffset ItemOffset OPTIONAL,
    errorCode ErrorCode
}

ErrorDetailList ::= [APPLICATION 520] SEQUENCE OF ErrorDetail
ItemLevel ::= [APPLICATION 548] INTEGER

ItemOccurrence ::= [APPLICATION 547] INTEGER

ItemOffset ::= [APPLICATION 524] INTEGER

MessageDescriptionError ::= [APPLICATION 522] SEQUENCE
{  messageDescriptionInfo MessageDescriptionInfoList,
    errorDetail   ErrorDetailList
}

MessageDescriptionInfoList ::= [APPLICATION 8] SEQUENCE OF
MessageDescriptionInformationDefinition

MessageDescriptionInformationDefinition ::= [APPLICATION 143] SEQUENCE
{  messageDescriptionCode MessageDescriptionCode OPTIONAL,
    messageDescription  MessageDescription OPTIONAL
}

NetworkInfoError ::= [APPLICATION 523] SEQUENCE
{  networkInfo    NetworkInfo,
    errorDetail   ErrorDetailList
}

NotificationError ::= [APPLICATION 552] SEQUENCE
{  notification    Notification,
    errorDetail   ErrorDetailList
}

OperatorSpecList ::= [APPLICATION 551] SEQUENCE OF OperatorSpecInformation

PathItemId ::= [APPLICATION 546] INTEGER

RapFileAvailableTimeStamp ::= [APPLICATION 525] DateTimeLong

RapFileCreationTimeStamp ::= [APPLICATION 526] DateTimeLong

RapReleaseVersionNumber ::= [APPLICATION 543] INTEGER

RapSpecificationVersionNumber ::= [APPLICATION 544] INTEGER

ReturnDetailsCount ::= [APPLICATION 528] INTEGER

ReturnSummary ::= [APPLICATION 530] SEQUENCE
{  fileSequenceNumber    FileSequenceNumber,
    severeReturnValue    SevereReturnValue OPTIONAL
}

ReturnSummaryList ::= [APPLICATION 531] SEQUENCE OF ReturnSummary

RoamingPartner ::= [APPLICATION 550] PlmnId

SevereReturnValue ::= [APPLICATION 529] AbsoluteAmount
GSM Association
Official Document TD.32

6 File Naming Conventions

6.1 Commercial RAP Data

RAP Files containing rejected chargeable data that is being returned must follow the naming convention below:

RCxxxxxyyyyySEQNO

Where:
- RC = “Returned Chargeable data”
- xxxx = the returning entity (Sender)
- yyyy = the originator of the TAP data (Recipient)
- SEQNO = sequence number

6.2 Test RAP Data

RAP Files containing rejected test data that is being returned must follow the naming convention below:

RTxxxxxyyyyySEQNO

Where:
• RT = “Returned Test data”
• xxxx = the rejecting entity (Sender)
• yyyyy = the originator of the TAP test data (Recipient)
• SEQNO = sequence number

6.3 Acknowledgement of Commercial RAP Data
Acknowledgements of RAP Files containing rejected chargeable data that is being returned must follow the naming convention below:

ACxxxxxyyyyySEQNO

Where:
• AC = “Acknowledgement of returned Chargeable data”
• xxxx = the acknowledging entity (Sender)
• yyyyy = the returning entity (Recipient)
• SEQNO = sequence number of the RAP File being acknowledged

6.4 Acknowledgement of Test RAP Data
Acknowledgements of RAP Files containing rejected test data that is being returned must follow the naming convention below:

ATxxxxxyyyyySEQNO

Where:
• AT = “Acknowledgement of returned Test data”
• xxxx = the acknowledging entity (Sender)
• yyyyy = the returning entity (Recipient)
• SEQNO = sequence number of the RAP File being acknowledged

7 Scenarios

7.1 Purpose of Scenarios
These scenarios contain a sequence of events that may happen in real life. The events should not be taken in isolation but should be treated as a dependent occurrence with the description and expected values for example purposes only.

The intent is to give guidance to the creation of RAP files and RAP Acknowledgement files. It is not intended to explain how files are validated, only to explain how different classes of errors are treated.
7.2 Setting of Scenarios

The setting of the scenarios in relation to the VPMN has been done in TD.60. The UTC Time Offset of the HPMN (Eurognet) processing centre (not defined in TD.60) is -05:00 during the time of these scenarios.

All scenarios contain the following information:

- A complete TAP file sent by the VPMN containing one or more errors (except for the missing file scenario);
- A complete RAP file sent by the HPMN reporting the errors found;
- A complete RAP Acknowledgement file sent by the VPMN to acknowledge receipt of the RAP file;
- A complete TAP file resubmitted by the VPMN, after the errors have been corrected.

All groups and simple data items are shown, even the ones that are not sent in the RAP file, being optional or conditional. This is done for clarity. Groups defined also in TD.60 (being TAP groups) are however only redefined here if they are sent in the RAP file.

7.3 Call Scenario

All TAP files contain only one call scenario, adapted from scenario 1041 in TD.60: Subscriber Ea calls subscriber Oa at 20:31.00 on 6/11/2000 and at 21:00.00 on 8/11/2000 for exactly five minutes both days.

7.4 Rejected Call Event Details

When the HPMN rejects Call Event Details from a TAP file, they must send a RAP file to the VPMN as defined in the RAP File Definition section of this document. The VPMN will make every effort to correct the Call Event Details and resubmit them to the HPMN in the next File Transfer in Sequence.

Step 1

- The VPMN sends TAP file Sequence Number 00001.

Step 2

- The HPMN rejects one Call Event Detail in the TAP file due to a severe error in the TeleService Code item and returns RAP file Sequence Number 00001 to the VPMN describing the error.
  
  Note: The entire Call Event Detail is returned to the VPMN.

Step 3

- The VPMN acknowledges receipt of RAP file Sequence Number 00001 by sending a RAP Acknowledgement file back to the HPMN.
  
  Note: This must be done immediately upon receipt of the RAP file, without validating the contents of the RAP file.

Step 4

- The VPMN corrects the Call Event Detail and resubmits that within TAP file Sequence Number 00002

7.4.1 TAP file containing one severe error
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Cond</th>
<th>G/S</th>
<th>Value</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Transfer</td>
<td>M</td>
<td>G1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer Batch</td>
<td>M</td>
<td>G2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batch Control Information</td>
<td>M</td>
<td>G3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sender</td>
<td>M</td>
<td>S3</td>
<td>AUTPT</td>
<td>Home Net</td>
</tr>
<tr>
<td>Recipient</td>
<td>M</td>
<td>S3</td>
<td>EUR01</td>
<td>EUROGNET</td>
</tr>
<tr>
<td>File Sequence Number</td>
<td>M</td>
<td>S3</td>
<td>00001</td>
<td></td>
</tr>
<tr>
<td>File Creation Timestamp</td>
<td>M</td>
<td>S3</td>
<td>20001107020000</td>
<td>CCYYMMDDHHMMSS</td>
</tr>
<tr>
<td>UTC Time Offset</td>
<td>M</td>
<td>S3S</td>
<td>+0100</td>
<td>national normal time</td>
</tr>
<tr>
<td>Transfer Cut Off Timestamp</td>
<td>M</td>
<td>S3</td>
<td>20001106235959</td>
<td>CCYYMMDDHHMMSS</td>
</tr>
<tr>
<td>UTC Time Offset</td>
<td>M</td>
<td>S3S</td>
<td>+0100</td>
<td>national normal time</td>
</tr>
<tr>
<td>File Available Timestamp</td>
<td>M</td>
<td>S3</td>
<td>20001107023000</td>
<td>CCYYMMDDHHMMSS</td>
</tr>
<tr>
<td>UTC Time Offset</td>
<td>M</td>
<td>S3S</td>
<td>+0100</td>
<td>national normal time</td>
</tr>
<tr>
<td>Specification Version Number</td>
<td>M</td>
<td>S3</td>
<td>3</td>
<td>Specification Version 03</td>
</tr>
<tr>
<td>Release Version Number</td>
<td>M</td>
<td>S3S</td>
<td>4</td>
<td>Release Version 04</td>
</tr>
<tr>
<td>File Type Indicator</td>
<td>C</td>
<td>S3</td>
<td>T</td>
<td>Test data</td>
</tr>
<tr>
<td>Accounting Information</td>
<td>C</td>
<td>G3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taxation</td>
<td>C</td>
<td>G4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tax Rate Code</td>
<td>M</td>
<td>S4</td>
<td>1</td>
<td>national call</td>
</tr>
<tr>
<td>Tax Type</td>
<td>M</td>
<td>S4</td>
<td>13</td>
<td>VAT</td>
</tr>
<tr>
<td>Tax Rate</td>
<td>C</td>
<td>S4</td>
<td>1000000</td>
<td>percent</td>
</tr>
<tr>
<td>Local Currency</td>
<td>M</td>
<td>S3</td>
<td>ATS</td>
<td>Austrian Schillings</td>
</tr>
<tr>
<td>Currency Conversion</td>
<td>M</td>
<td>G4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exchange Rate Code</td>
<td>M</td>
<td>S4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Number Of Decimal Places</td>
<td>M</td>
<td>S4</td>
<td>3</td>
<td>Three digits after “Point”</td>
</tr>
<tr>
<td>Exchange Rate</td>
<td>M</td>
<td>S4</td>
<td>12000</td>
<td>12:1</td>
</tr>
<tr>
<td>TAP Decimal Places</td>
<td>M</td>
<td>S3</td>
<td>3</td>
<td>Three digits after “Point”</td>
</tr>
<tr>
<td>Network Information</td>
<td>M</td>
<td>G3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTC Time Offset Information</td>
<td>M</td>
<td>G4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTC Time Offset Code</td>
<td>M</td>
<td>S4</td>
<td>1</td>
<td>national normal time</td>
</tr>
<tr>
<td>UTC Time Offset</td>
<td>M</td>
<td>S4</td>
<td>+0100</td>
<td>utc-a</td>
</tr>
<tr>
<td>Recording Entity Information</td>
<td>C</td>
<td>G4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recording Entity Code</td>
<td>M</td>
<td>S4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Recording Entity Type</td>
<td>M</td>
<td>S4</td>
<td>1</td>
<td>MSC</td>
</tr>
<tr>
<td>Recording Entity Identification</td>
<td>M</td>
<td>S4</td>
<td>ARSENAL1</td>
<td>msc1-ea</td>
</tr>
<tr>
<td>Network Type</td>
<td>M</td>
<td>S3</td>
<td>1</td>
<td>Terrestrial</td>
</tr>
<tr>
<td>Called Number Analysis</td>
<td>M</td>
<td>G4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country Code</td>
<td>M</td>
<td>S4</td>
<td>43</td>
<td>Austria</td>
</tr>
<tr>
<td>International Access Code</td>
<td>M</td>
<td>S4</td>
<td>00</td>
<td>iac</td>
</tr>
<tr>
<td>Call Event Details (1)</td>
<td>M</td>
<td>G3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Cond</th>
<th>G/S</th>
<th>Value</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Originated Call</td>
<td>M</td>
<td>G4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RESTRICTED VERSION 3.9 Page 39 of 64
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Cond</th>
<th>G/S</th>
<th>Value</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO Basic Call Information</td>
<td>M</td>
<td>G5</td>
<td>G5</td>
<td></td>
</tr>
<tr>
<td>Chargeable Subsribber</td>
<td>M</td>
<td>G6</td>
<td>G6</td>
<td></td>
</tr>
<tr>
<td>IMSI</td>
<td>M°</td>
<td>S6</td>
<td>262092464569171</td>
<td>imsi-ea</td>
</tr>
<tr>
<td>MSISDN</td>
<td>C</td>
<td>S6S</td>
<td>239228473214</td>
<td>msisdn-ea</td>
</tr>
<tr>
<td>Destination</td>
<td>C</td>
<td>G6</td>
<td>G6</td>
<td></td>
</tr>
<tr>
<td>Type Of Number</td>
<td>C</td>
<td>S6</td>
<td>0</td>
<td>Nature of Address Unknown</td>
</tr>
<tr>
<td>Numbering Plan</td>
<td>C</td>
<td>S6</td>
<td>06643313540</td>
<td>ISDN/Telephony (CCITT E164)</td>
</tr>
<tr>
<td>Called Number</td>
<td>C</td>
<td>S6</td>
<td>06643313540</td>
<td>msisdn-oa</td>
</tr>
<tr>
<td>Called Place</td>
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#### 7.4.3 RAP Acknowledgement file

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7.4.4 TAP file containing the corrected, resubmitted Call Event Details

**Note:** There could be other new Call Event Details in batch number 2. For the purpose of this example, however, there were no other calls at the Cut-off time for batch number 2 and only the corrected Call Event Detail from batch number 1 is included.

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### 7.5 Rejected TAP file

When the HPMN rejects an entire file they must send a RAP file to the VPMN as defined in the RAP File Definition section of this document. The VPMN will make every effort to correct the file and resubmit it to the HPMN using the same sequence number.

#### Step 1
- The VPMN sends TAP file Sequence Number 00003.

#### Step 2
- The HPMN rejects the TAP file due to a fatal error (the Total Charge is incorrect) and returns RAP file Sequence Number 00002 to the VPMN describing the error.
Note: The entire file is not returned to the VPMN, only a notification describing the errors. For example, when a fatal error is found in the Accounting Information only the Accounting Information is returned.

Step 3
- The VPMN acknowledges receipt of RAP file Sequence Number 00002 by sending a RAP Acknowledgement file back to the HPMN.
  Note: This must be done immediately upon receipt of the RAP file, without validating the contents of the RAP file.

Step 4
- The VPMN corrects the TAP file and resubmits with Sequence Number 00003.
  Note: If the VPMN cannot correct the file, a Notification file with Sequence Number 00003 must be sent.

7.5.1 TAP file containing one fatal error

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Service Code | M | G7 |  | 
TeleService Code | M | S7 | 11 | Telephony
Radio Channel Requested | C | S6 | 1 | Full Rate Channel
Radio Channel Used | C | S6 | 1 | Full Rate Channel
Speech Version Requested | C | S6 | 1 | GSM speech full rate version 1
Speech Version Used | C | S6 | 1 | GSM speech full rate version 1
Charge Information | M | G6 |  | 
Charged Item | M | S6 | D | Duration based charge
Exchange Rate Code | C | S6 | 1 | 12:1
Call Type Group | C | G7 |  | 
Call Type Level 1 | M | S7 | 1 | National
Call Type Level 2 | M | S7 | 1 | Mobile
Call Type Level 3 | M | S7 | 2 | As defined in IOT
Charge Detail | M | G7 |  | 
Charge Type | C | S7 | 00 | Total charge for Charge Information
Charge | C | S7 | 25000 | SDR
Chargeable Units | C | S7 | 300 | Seconds
Day Category | M | S7 | N | Normal
Time Band | M | S7 | 0 | Off-Peak
Tax Information | C | G7 |  | 
Tax Rate Code | M | S7 | 1 | national
Tax Value | M | S7 | 2500 | SDR

### Field Name | Cond | G/S | Value | Definition
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Audit Control Information | M | G3 |  | 
Earliest Call Timestamp | M | S3 | 20001108210000 | CCYYMMDDHHMMSS
UTC Time Offset | M | S3S | +0100 | national normal time
Latest Call Timestamp | M | S3 | 20001108210000 | CCYYMMDDHHMMSS
UTC Time Offset | M | S3S | +0100 | national normal time
Total Charge Value | M | G4 |  | 
Charge Type | M | S4 | 00 | Total Charge for Charge Information
Total Charge | M | S4 | 250000 | ***ERROR*** 10 times too high
Total Tax Value | M | S3 | 2500 | SDR
Total Discount Value | M | S3 | 0 | No discounts
Call Event Details Count | M | S3 | 1 | Items

#### 7.5.2 RAP file reporting one rejected file

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REstricted |  | VERSION 3.9 | Page 52 of 64 |  |
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---|---|---|---|---
Item Occurrence | C | S6 | | 
Item Level | M | S6 | 4 | 
Error Context (5) | OC | G6 | | 
Path Item Id | M | S6 | 241 | Decimal representation of the Application TAG for AbsoluteAmount [Application 241] 
Item Occurrence | C | S6 | | 
Item Level | M | S6 | 5 | 
Item OffSet | C | S5 | TBD | Byte count from the start of the file. Only if available. 
Error Code | M | S5 | 100 | Does not match calculated sum 
Operator Specific Information | O | S4 | | 
Severe Return | M | G3 | | 
File Sequence Number | M | S3 | | 
Call Event Details | M | G4 | | 
Error Detail | M | G4 | | 
Error Context | OC | G5 | | 
Path Item Id | M | S5 | | 
Item Occurrence | C | S5 | | 
Item Level | M | S5 | | 
Item OffSet | C | S4 | | 
Error Code | M | S4 | | 
Operator Specific Information | O | S3 | | 
RAP Audit Control Information | M | G2 | | 
Return Summary | C | G3 | | 
File Sequence Number | M | S3 | | Files containing fatal errors are not reported in the Return Summary 
Severe Return Value | C | S3 | | 
Total Severe Return Value | M | S2 | 0 | 
Return Details Count | M | S2 | 1 | Number of returned "Return Details" 
Operator Specific Information | O | S3 | | 

#### 7.5.3 RAP Acknowledgement file

| Field Name | Cond | G/S | Value | Definition |
---|---|---|---|---|
Acknowledgement File | M | G1 | | 
Sender | M | S1 | AUTPT | Visited Operator 
Recipient | M | S1 | EUR01 | EUROGNET 
RAP File Sequence Number | M | S1 | 00002 | 
File Creation Timestamp | M | S1 | 20001109053500 | CCYYMMDDHHMMSS 
UTC Time Offset | M | S1S | +0100 | 

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### 7.5.4 Corrected, resubmitted TAP file

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<td>M</td>
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</table>

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### Field Name | Cond | G/S | Value | Definition
--- | --- | --- | --- | ---
Radio Channel Used | C | S6 | 1 | Full Rate Channel
Speech Version Requested | C | S6 | 1 | GSM speech full rate version 1
Speech Version Used | C | S6 | 1 | GSM speech full rate version 1
Charge Information | M | G6 | | |
Charged Item | M | S6 | D | Duration based charge
Exchange Rate Code | C | S6 | 1 | 12:1
Call Type Group | C | G7 | | |
Call Type Level 1 | M | S7 | 1 | National
Call Type Level 2 | M | S7 | 1 | Mobile
Call Type Level 3 | M | S7 | 2 | As defined in IOT
Charge Detail | M | G7 | | |
Charge Type | C | S7 | 00 | Total charge for Charge Information
Charge | C | S7 | 25000 | SDR
Chargeable Units | C | S7 | 300 | Seconds
Day Category | M | S7 | N | Normal
Time Band | M | S7 | O | Off-Peak
Tax Information | C | G7 | | |
Tax Rate Code | M | S7 | 1 | national
Tax Value | M | S7 | 2500 | SDR

### Field Name | Cond | G/S | Value | Definition
--- | --- | --- | --- | ---
Audit Control Information | M | G3 | | |
Earliest Call Timestamp | M | S3 | 20001108210000 | CCYYMMDDHHMMSS
UTC Time Offset | M | S3S | +0100 | national normal time
Latest Call Timestamp | M | S3 | 20001108210000 | CCYYMMDDHHMMSS
UTC Time Offset | M | S3S | +0100 | national normal time
Total Charge Value | M | G4 | | |
Charge Type | M | S4 | 00 | Total Charge for Charge Information
Total Charge | M | S4 | 25000 | Corrected amount
Total Tax Value | M | S3 | 2500 | SDR
Total Discount Value | M | S3 | 0 | No discounts
Call Event Details Count | M | S3 | 1 | Items

### 7.6 Missing Sequence Number

There are two cases of missing sequence number.

In the case when the TAP File Sequence Number is greater than expected, the HPMN should note the absent file as missing and continue processing the remaining files. An inquiry in a RAP file format from the HPMN is sent to the VPMN requesting a retransmission of the missing file sequence number. Once receiving the request the VPMN must make
every effort to send the appropriate file or, if the file cannot be found, send a notification file in its place.

**Note:** The file sent must have the same sequence number that was missing. The VPMN must not re-sequence the file.

Step 1
- The VPMN sends a TAP file with Sequence Number 00005.

Step 2
- The HPMN processes TAP file Sequence Number 00005.

Step 3
- The HPMN returns RAP file Sequence Number 00003 to the VPMN requesting the VPMN to resubmit TAP file Sequence Number 00004 (which is missing).

Step 4
- The VPMN acknowledges receipt of RAP file Sequence Number 00003 by sending a RAP Acknowledgement file back to the HPMN.
  **Note:** This must be done immediately upon receipt of the RAP file, without validating the contents of the RAP file.

Step 5
- The VPMN finds TAP file Sequence Number 00004 and resubmits the TAP file, keeping the same File Sequence Number 00004. The RAP File Sequence Number is not included in the unaltered TAP file.
  **Note:** If the VPMN cannot find the file, a Notification file with Sequence Number 00004 must be sent.

In the case when a latest TAP File is expected (in-line with the transfer frequency according to bilateral agreement) but has not been received, the HPMN should note the expected file as missing. An inquiry in a RAP file format from the HPMN is sent to the VPMN requesting a transmission of the missing file sequence number. Once receiving the request the VPMN must make every effort to send the appropriate file or, if the file cannot be found, send a notification file in its place.

Step 1
- The last TAP file sequence number received by HPMN is 00003.

Step 2
- The expected TAP file sequence number 00004 is missing.

Step 3
- The HPMN returns RAP file Sequence Number 00003 to the VPMN requesting the VPMN to submit TAP file Sequence Number 00004 (which is missing).

Step 4
- The VPMN acknowledges receipt of RAP file Sequence Number 00003 by sending a RAP Acknowledgement file back to the HPMN.
Step 5
- The VPMN finds TAP file Sequence Number 00004 and submits the TAP file Sequence Number 00004. The RAP File Sequence Number is not included in the unaltered TAP file.  
  **Note:** If the VPMN cannot find the file, a Notification file with Sequence Number 00004 must be sent.

### 7.6.1 RAP file reporting one missing file

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### 7.6.2 RAP Acknowledgement file

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### 7.6.3 Notification file sent, because missing file could not be found

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RESTRICTED VERSION 3.9 Page 64 of 64
Field Name | Cond | G/S | Value | Definition
---|---|---|---|---
Release Version Number | M | S1S | 4 | Version 04
File Type Indicator | C | S1 | T | Test data

Annex

It is advised that the HPMN provide additional information in support to the reported error in RAP files. This information will assist the VPMN to investigate and repair the error and thus it will help in reaching a quick settlement between the two parties.

In case of the below severe errors are reported, the HPMN is recommended to populate Operator Specific Information item with information as shown in the below table:

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<th>Error Code</th>
<th>Severe Error</th>
<th>Information in Operator Specific Information</th>
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<tr>
<td>250 - 256</td>
<td>Call is duplicate</td>
<td>Initial TAP file sequence number for duplicate call record.</td>
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<tr>
<td>261</td>
<td>Call older than allowed by BARG</td>
<td>Age of the Call records in seconds or in Days (in case more than 24 hours)</td>
</tr>
<tr>
<td>200</td>
<td>Charge not inline with roaming agreement</td>
<td>Expected charge / deviation from Expected Charge</td>
</tr>
<tr>
<td>200</td>
<td>The Exchange Rate referenced by Exchange Rate Code in Call Event Details is less than expected.</td>
<td>Expected Exchange rate / Effective date / Deviation percentage</td>
</tr>
<tr>
<td>200</td>
<td>The referenced Tax Rate is not in line with the roaming agreement at the corresponding call date</td>
<td>Expected Tax Rate / Effective date</td>
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</tbody>
</table>

The additional information is to be put as free text. For example:
“CED 100 is duplicate with CED 75 from TAP file CDEUGN1AUTPT00005”
“Call age at HPMN is 35 days and allowed age is 30 days. File available timestamp used for calculation was 20030701”