**Annex H**(informative) **Example of file transfer management**

This example gives the specific messages sent and the actual contents of the key message data elements, although any other data elements may also be sent.

The following parameters are assumed:

a) file transfer is initiated by the card issuer;

b) transfer consists of two files.

Table H.1 gives the details of how the Data record data element is configured for each file. Figure H.1 shows the messages flows and Table H.2 to Table H.7 give the relevant data element contents.

**Table H.1 — File transfer details**

|  |  |  |
| --- | --- | --- |
| **Transfer details** | **File 1** | **File 2** |
| Length of file (bytes) | 5120 | 1400 |
| Number of elementary data records | 20 | 14 |
| Frequency of acknowledgement | 1 | After final message |



**Figure H.1 — Example file transfer**

**Table H.2 — Start of file transfer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MTI** | **Bit** | **Data element name** | **Value** | **Meaning** |
| 804 | Card issuer to acquirer |
|  | 24 | Function code | 841 | Start file transfer |
|  | 25 | Message reason code | 8000 | Start transfer, no recovery procedure |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000003 | Number of messages in the files |
|  | Batch/file transfer file identification | ..test file 1 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 005120 | File size in bytes |
|  | File transfer elementary data record count | 000020 | Number of elementary records in file |
|  | File transfer remaining data record count | 000020 | Remaining number of elementary records |
| 814 | Acquirer to card issuer |
|  | 24 | Function code | 841 | Start file transfer |
|  | 39 | Action code | 8000 | Accepted |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000003 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 1 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 005120 | File size in bytes |
|  | File transfer elementary data record count | 000020 | Number of elementary records in file |
|  | File transfer remaining data record count | 000020 | Remaining number of elementary records |

**Table H.3 — Transfer of file 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MTI** | **Bit** | **Data element name** | **Value** | **Meaning** |
| 362 | Card issuer to acquirer |
|  | 68 | Batch/file transfer message control |   |   |
|  | Batch/file transfer acknowledgement code | 1 | Acknowledgement required |
|  | Batch/file transfer message sequence number | 00000001 | First message |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000003 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 1 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 005120 | File size in bytes |
|  | File transfer elementary data record count | 000020 | Number of elementary records in file |
|  | File transfer remaining data record count | 000014 | Remaining number of elementary records |
|  | 72 | Data record |   | Contains the first six elementary data records |
| 372 | Acquirer to card issuer |
| 68 | Batch/file transfer message control |   |   |
| Batch/file transfer acknowledgement code | 3 | Positive acknowledgement |
| Batch/file transfer message sequence number | 00000001 | First message |
| 362 | Card issuer to acquirer |
|  | 68 | Batch/file transfer message control |   |   |
|  | Batch/file transfer acknowledgement code | 1 | Acknowledgement required |
|  | Batch/file transfer message sequence number | 00000002 | Second message |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000003 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 1 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 005120 | File size in bytes |
|  | File transfer elementary data record count | 000020 | Number of elementary records in file |
|  | File transfer remaining data record count | 000008 | Remaining number of elementary records |
|  | 72 | Data record |   | Contains the six subsequent elementary data records |
| 372 | Acquirer to card issuer |
| 68 | Batch/file transfer message control |   |   |
| Batch/file transfer acknowledgement code | 3 | Positive acknowledgement |
| Batch/file transfer message sequence number | 00000002 | Second message |
| 362 | Card issuer to acquirer |
|  | 68 | Batch/file transfer message control |   |   |
|  | Batch/file transfer acknowledgement code | 1 | Acknowledgement required |
|  | Batch/file transfer message sequence number | 00000003 | Third message |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000003 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 1 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 005120 | File size in bytes |
|  | File transfer elementary data record count | 000020 | Number of elementary records in file |
|  | File transfer remaining data record count | 000000 | Remaining number of elementary records |
|  | 72 | Data record |   | Contains the eight subsequent elementary data records |
| 372 | Acquirer to card issuer |
| 68 | Batch/file transfer message control |   |   |
| Batch/file transfer acknowledgement code | 3 | Positive acknowledgement |
| Batch/file transfer message sequence number | 00000003 | Third message |

**Table H.4 — End of card issuer file transfer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MTI** | **Bit** | **Data element name** | **Value** | **Meaning** |
| 844 | Card issuer to acquirer |
|  | 24 | Function code | 842 | End file transfer |
|  | 25 | Message reason code | 8002 | End file |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000003 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 1 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 005120 | File size in bytes |
|  | File transfer elementary data record count | 000020 | Number of elementary records in file |
|  | File transfer remaining data record count | 000000 | Remaining number of elementary records |

**Table H.5 — Start of card issuer file transfer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MTI** | **Bit** | **Data element name** | **Value** | **Meaning** |
| 804 | Card issuer to acquirer |
|  | 24 | Function code | 841 | Start file transfer |
|  | 25 | Message reason code | 8000 | Start transfer, no recovery procedure |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000002 | Number of messages in the files |
|  | Batch/file transfer file identification | ..test file 2 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 001400 | File size in bytes |
|  | File transfer elementary data record count | 000014 | Number of elementary records in file |
|  | File transfer remaining data record count | 000014 | Remaining number of elementary records |
| 814 | Acquirer to card issuer |
|  | 24 | Function code | 841 | Start file transfer |
|  | 39 | Action code | 8000 | Accepted |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000002 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 2 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 001400 | File size in bytes |
|  | File transfer elementary data record count | 000014 | Number of elementary records in file |
|  | File transfer remaining data record count | 000014 | Remaining number of elementary records |

**Table H.6 — Transfer file 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MTI** | **Bit** | **Data element name** | **Value** | **Meaning** |
| 362 | Card issuer to acquirer |
|  | 68 | Batch/file transfer message control |   |   |
|  | Batch/file transfer acknowledgement code | 0 | No acknowledgement required |
|  | Batch/file transfer message sequence number | 00000001 | First message |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000002 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 2 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 001400 | File size in bytes |
|  | File transfer elementary data record count | 000014 | Number of elementary records in file |
|  | File transfer remaining data record count | 000004 | Remaining number of elementary records |
|  | 72 | Data record |   | Contains the first 10 elementary data records |
| 362 | Card issuer to acquirer |
|  | 68 | Batch/file transfer message control |   |   |
|  | Batch/file transfer acknowledgement code | 2 | Acknowledgement required, end of transfer |
|  | Batch/file transfer message sequence number | 00000002 | Second message |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000002 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 2 | File name |
|  | 70 | File transfer description data |   |   |
|  | File transfer file size | 001400 | File size in bytes |
|  | File transfer elementary data record count | 000014 | Number of elementary records in file |
|  | File transfer remaining data record count | 000000 | Remaining number of elementary records |
|  | 72 | Data record |   | Contains the last four elementary data records |
| 372 | Acquirer to card issuer |
|  | 68 | Batch/file transfer message control |   |   |
|  | Batch/file transfer acknowledgement code | 4 | Positive acknowledgement, end of transfer |
|  | Batch/file transfer message sequence number | 00000002 | Second message |

**Table H.7 — End of card issuer file transfer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MTI** | **Bit** | **Data element name** | **Value** | **Meaning** |
| 844 | Card issuer to acquirer |
|  | 24 | Function code | 842 | End file transfer |
|  | 25 | Message reason code | 8002 | End batch |
|  | 69 | Batch/file transfer control data |   |   |
|  | Batch/file transfer message count | 00000002 | Number of messages in the file |
|  | Batch/file transfer file identification | ..test file 2 | File name |
|  | 70 | File transfer description data |   |   |
|  |  | File transfer file size | 001400 | File size in bytes |
|  |  | File transfer elementary data record count | 000014 | Number of elementary records in file |
|  |  | File transfer remaining data record count | 000000 | Remaining number of elementary records |