

**TO:** T10 Membership  
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**DATE:** 24 October 2003  
**SUBJECT:** T10/03-367r0, ADT Annex: Error detection and recovery action examples

**Revision 0:**

- Initial version

**Background**

In the process of preparing proposals for error detection and recovery, we found that drawings made comprehension easier. This document offers some such as an informative annex for ADT.

**Changes**

Add the following as an Annex.

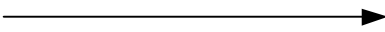
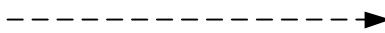
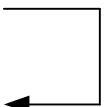
**Annex A**

(Informative)

**Error detection and recovery action examples****A.1 Introduction**

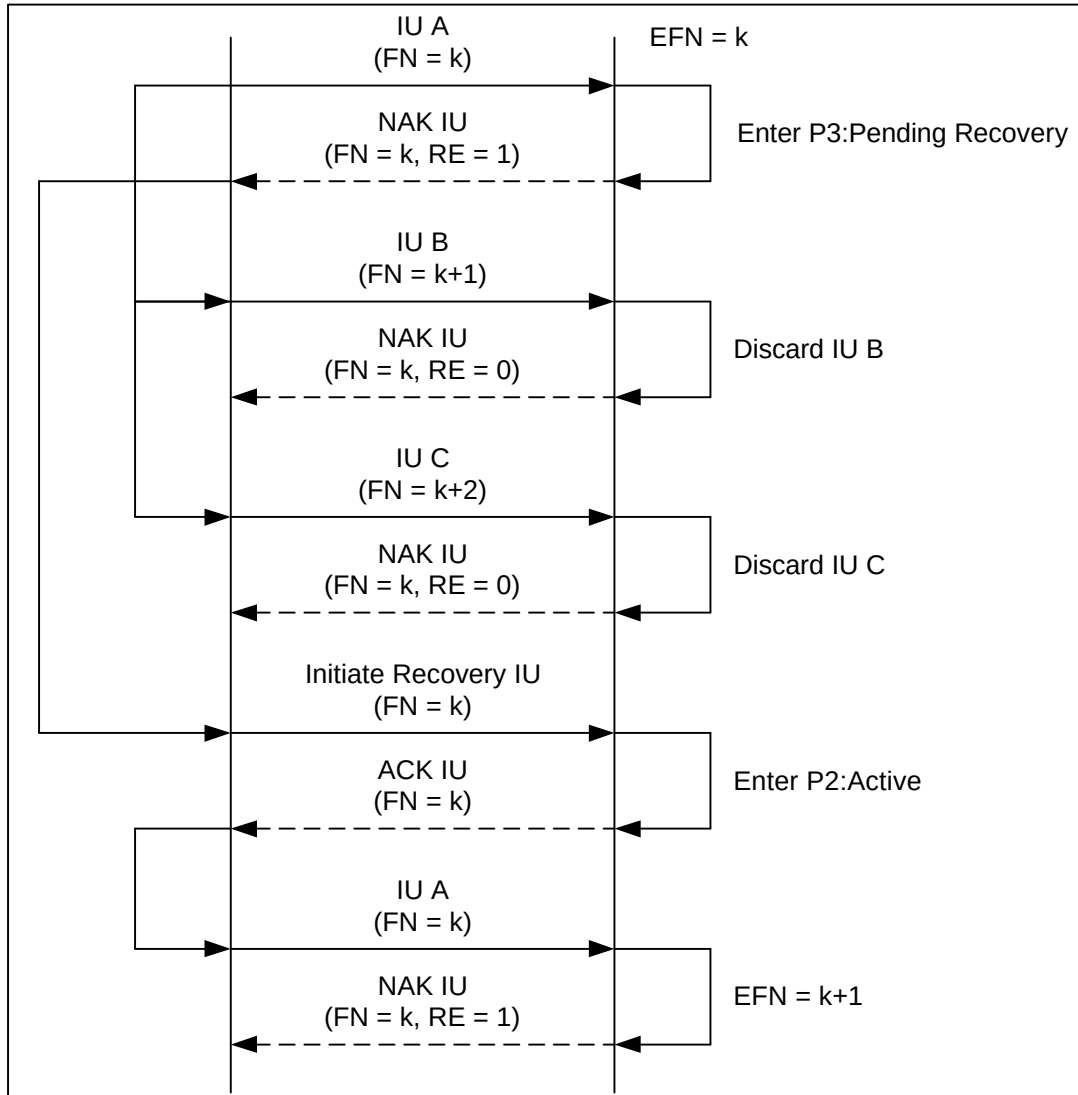
This informative annex diagrams various error detection and recovery procedures for ADT devices conforming to this standard. The conventions for the diagrams are shown in table A.1.

**Table A.1 – Diagram Drawing Conventions**

| <b>Drawing Convention</b>                                                           | <b>Meaning</b>                                             |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|
|    | Acknowledged or Unacknowledged IU                          |
|    | Acknowledgement IU                                         |
|    | Time-out value exceeded                                    |
|  | IU received is processed to transmit IU                    |
| <b>X</b>                                                                            | IU lost or dropped                                         |
| RE                                                                                  | Value of the recovery expected (RECEXP) bit in the NAK IU. |
| a = b                                                                               | Counter a is set to the value of expression b              |
| (condition)<br>=> action                                                            | Because the condition is true, the action is performed     |

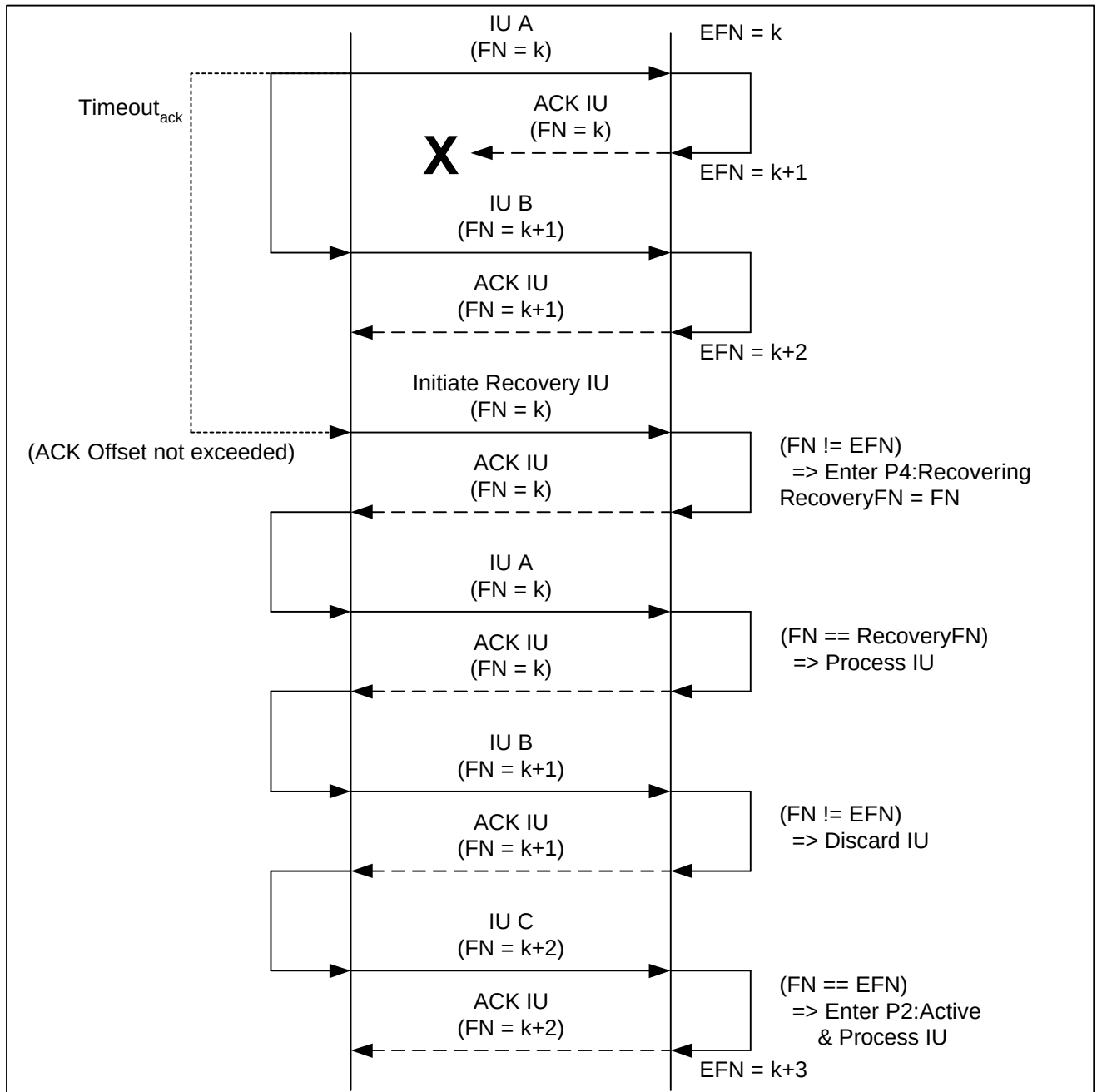
**Figure A.1 – Receiver-Detected Error**

**Note:** ACK Offset > 1 allows IU B to be sent immediately after IU A.



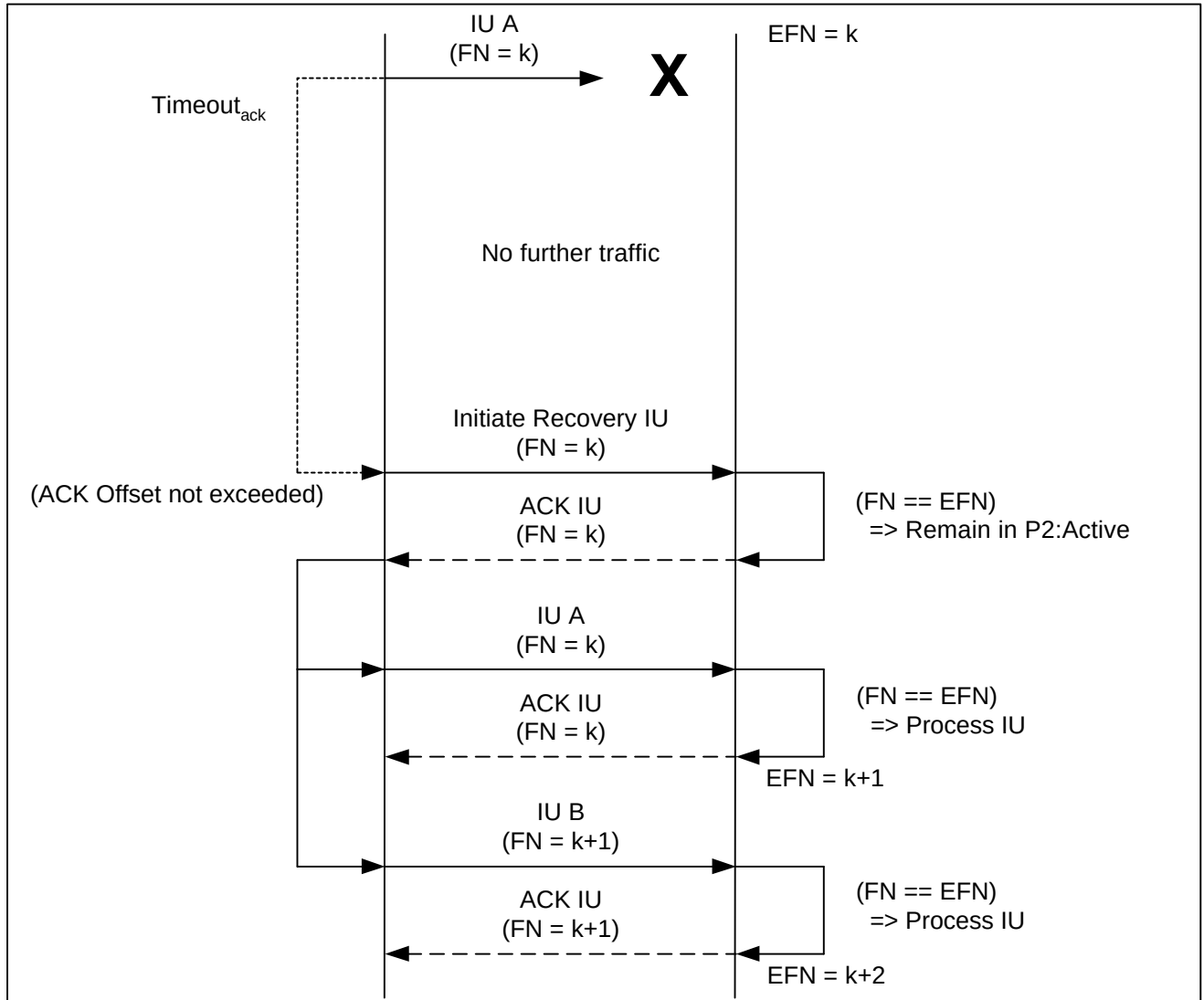
### Figure A.2 – Lost ACK IU

**Note:** ACK Offset > 1 allows IU B to be sent immediately after IU A.



**Figure A.3 – Lost IU**

**Note:** After retransmission of IU A, ACK Offset > 1 allows IU B to be sent immediately.



**Figure A.4 – Non-Retryable Error**

**Note:** ACK Offset > 1 allows IU B to be sent immediately after IU A.

