```
process source
    in  nak(nr,adr) →
            out  ncf(nr) to all sucessors;
            TXW_TRAIL < nr → rec_nak := add(rec_nak,nr);

    get(nr, rec_nak) →
            nr > TXW_TRAIL → out  rdata(nr, TXW_TRAIL) to all successors;
            rec_nak := remove(rec_nak, nr);

    length(rec_nak) = 0 →
            out  odata(ODATA, TXW_TRAIL) to all successors;
            ODATA := ODATA + 1;
            ODATA +1 > TXW_ADV_SEC + TXW_TRAIL →
                        TXW_TRAIL := TXW_TRAIL + TXW_ADV_SEC;
  endprocess;



process network_element;
    in  nak(nr,adr) →
          list_repair_state := add(list_repair_state, nr);
          list_interface := add(list_interface, (nr,adr));
          out  nak(nr,self) to predecessor;
          out  ncf(nr) to all successors;

    in  rdata(nr,trail) →
          list_repair_state := remove(list_repair_state, nr);
          out  rdata(nr) to all successors i s.t. (nr,i) ∈ list_interface
                    list_interface := remove((nr,i), list_interface)

    in  ncf(nr) →
          list_repair_state := remove(list_repair_state, nr);

    in  odata(nr, trail) →
          out  odata(nr,trail) to all successors;

    get(nr, list_repair_state) →
          out  nak(nr,self) to predecessor;
endprocess;
```

```
process receiver;
    in  odata(nr,trail) ∧ RXW_TRAIL < nr →
          RXW_TRAIL := trail;
          list_nr := add(list_nr, nr);
          nr > trail + 1 → for all (RXW_TRAIL < i < nr ∧ i ∉ list_nr)
                    list_missing := add(list_missing,i);
          list_missing := remove(list_missing, nr);

    in  ncf(nr) ∧ RXW_TRAIL < nr ∧ nr ∉ list_nr →
          list_missing := add(list_missing, nr)

    in  rdata(nr, trail) ∧ RXW_TRAIL < nr →
          RXW_TRAIL := trail;
          add(list_nr, nr);
          nr > trail + 1 → for all (RXW_TRAIL < i < nr ∧ i ∉ list_nr)
                    list_missing := add(list_missing,i);
          list_missing := remove(list_missing, nr);

    get(nr, list_missing) →
          nr > RXW_TRAIL → out  nak(nr, self) to predecessor;
          nr ≤ RXW_TRAIL → list_missing := remove(list_missing,nr);
endprocess;
```