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APPLICATION NOTE No. 001		
Traceability of a production in the food industry		
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Description

The NetCube perform traceability of the raw material and execute in parallel PLC-functions controlling the feeding process to the production machines.

Cycle:

Each time a container of raw material is brought to the feeding location, the operator scans its bar code and the forwards this string to the Microsoft SQL Server. The server sends back a result: either the material is correct or not. Accordingly, the NetCube unlocks (or not) the door of the loading system. Additionally the NetCube displays the status of the current production via a serial display.

Logical behaviour (pseudo-code)

First program:

```
loop
  while door closed
    read digital input # check door status
  endwhile
  read barcode
  send request to MS SQL 2000
  if result = ok then
    set digital output # unlock door
  else
    display error message on serial display
  endif
endloop
```

Second program:

```
loop
  send request to MS SQL 2000
  display status message on serial display
  sleep 1 minute
endloop
```

Overview of the installation

