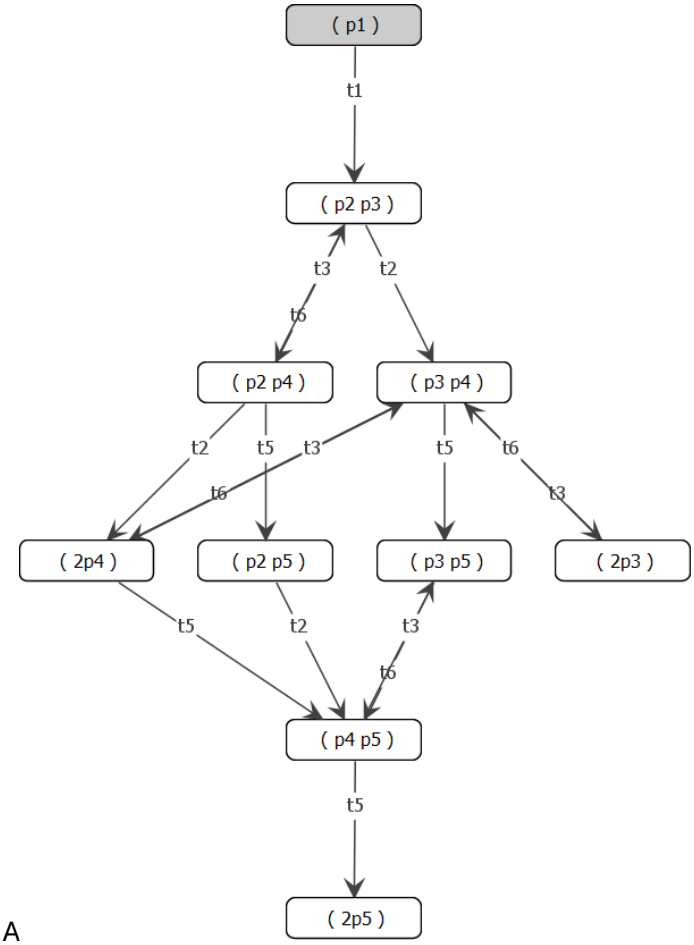
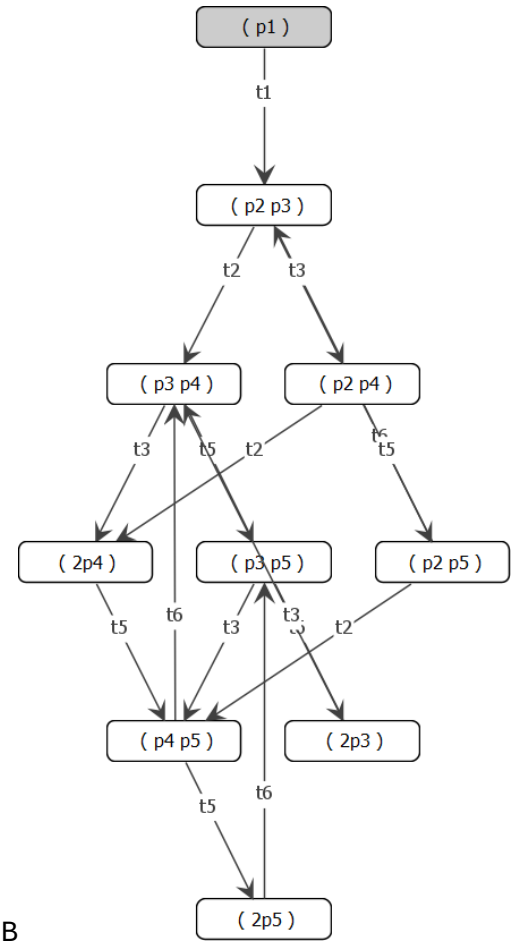
Appendix

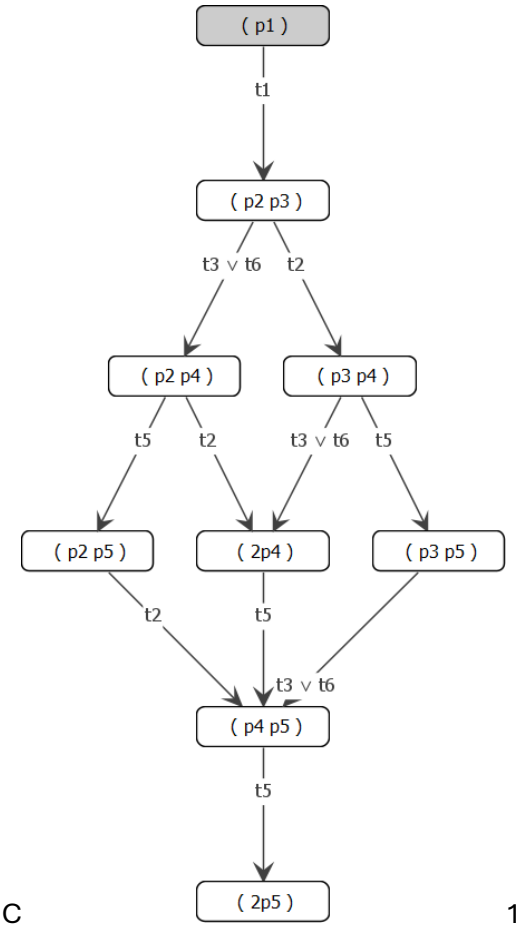
Section 1: Reachability graph



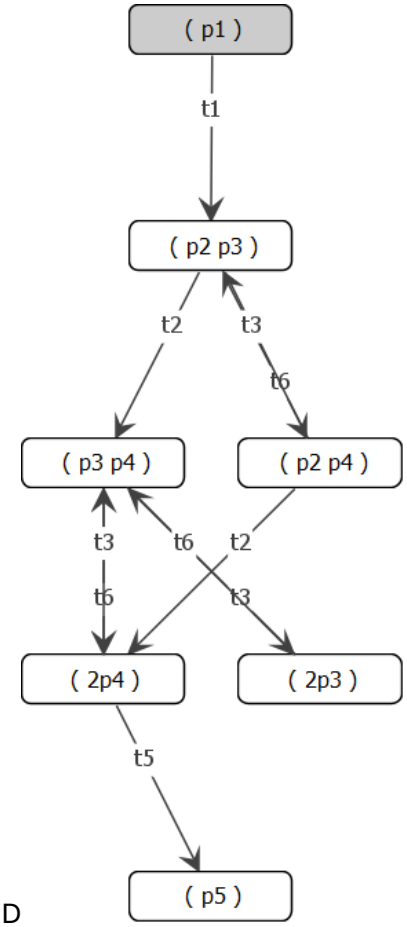
1A



1B

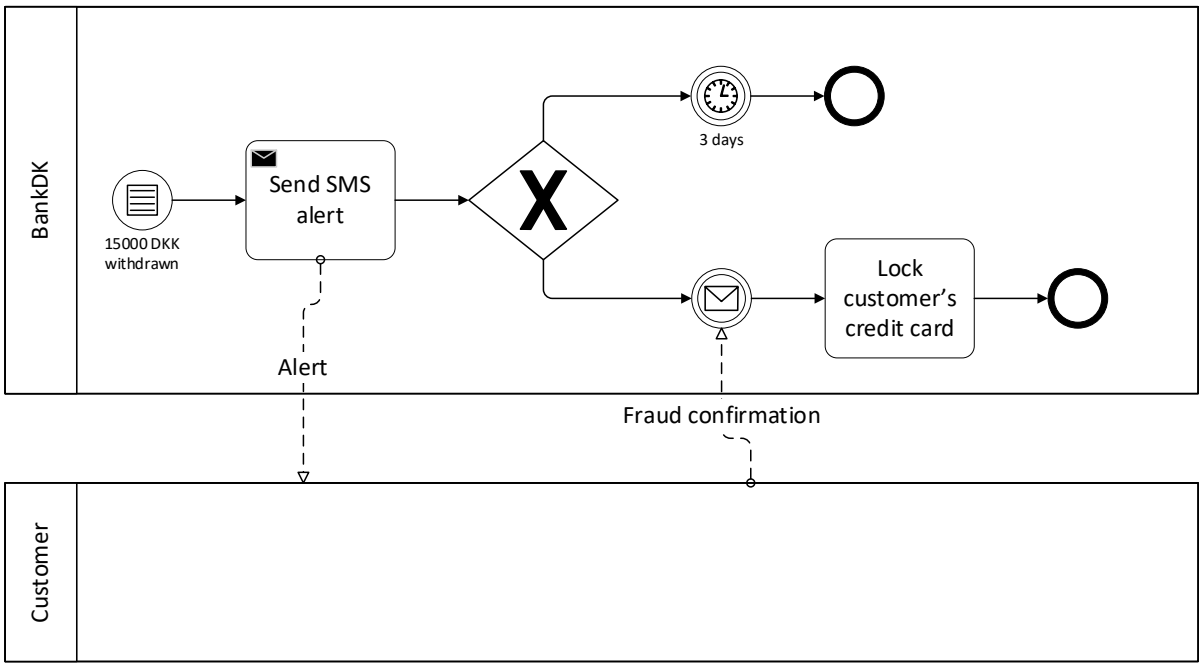


1C

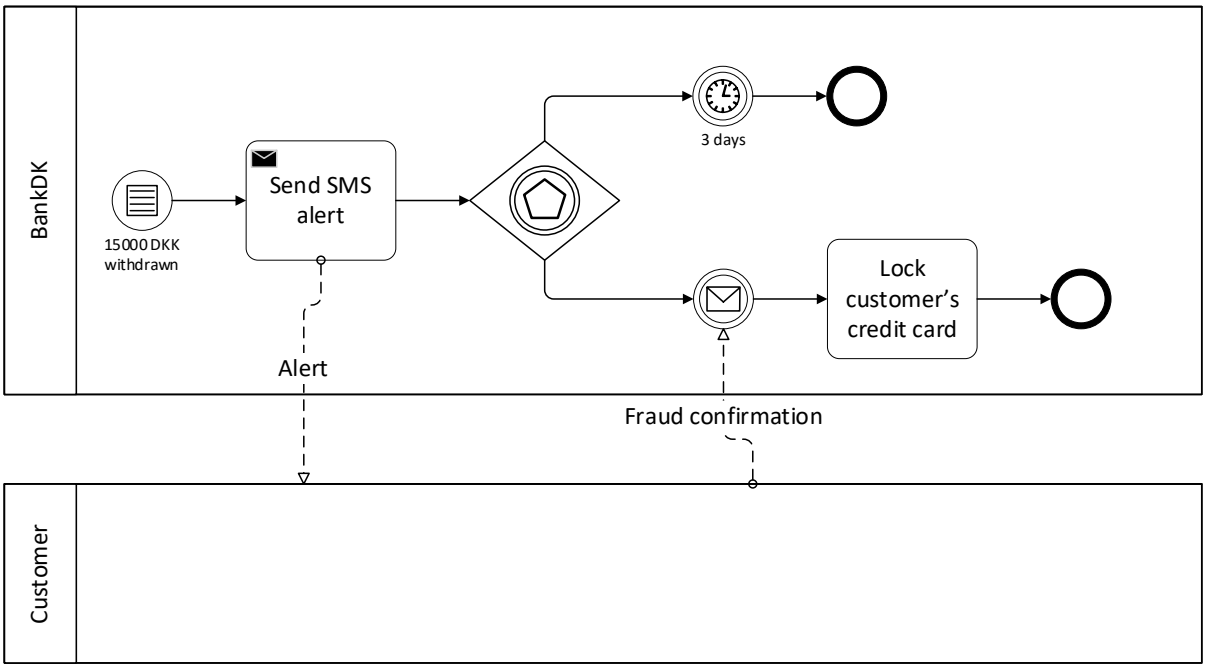


1D

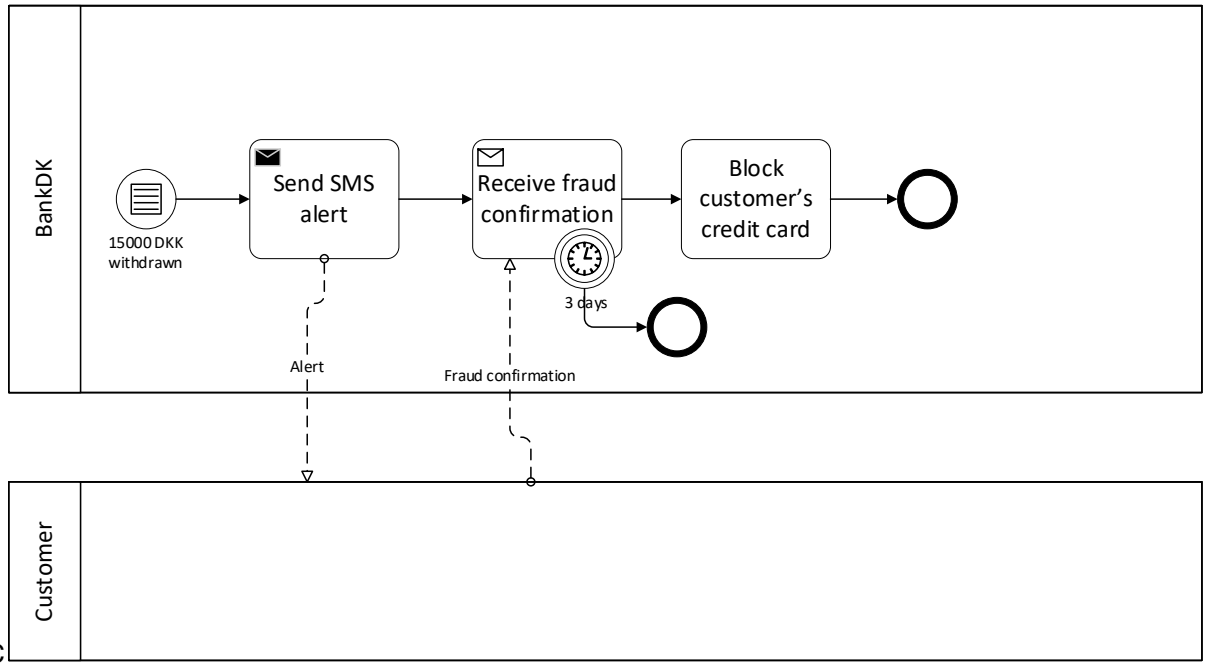
Section 2: BankDK Process model



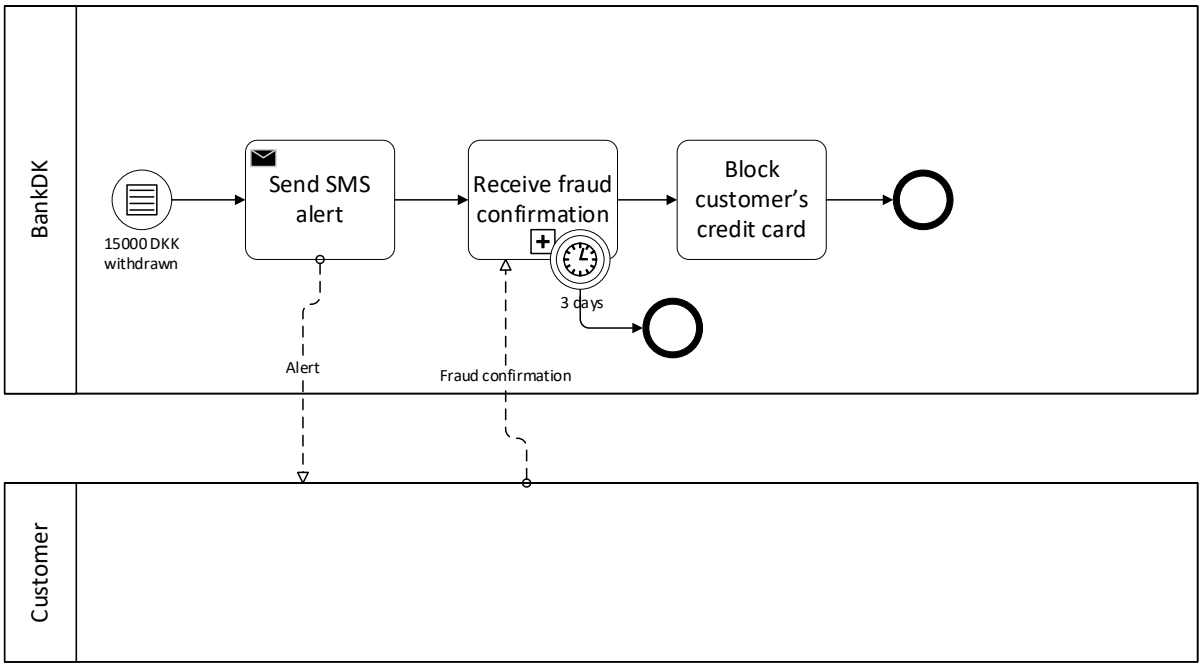
2A

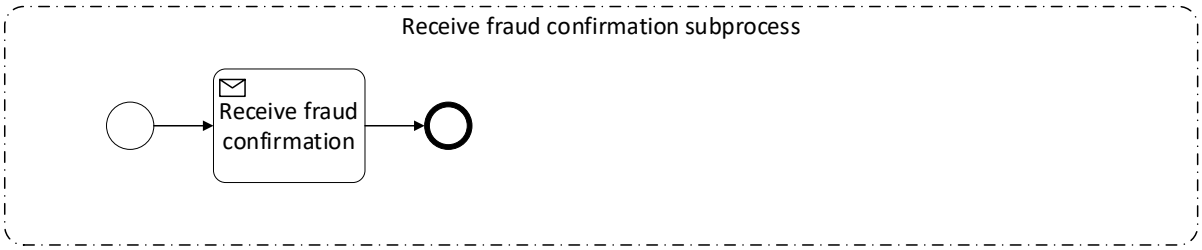

BankDK
15000 DKK withdrawn
Send SMS alert
3 days
Lock customer's credit card
Alert
Fraud confirmation
Customer

2B


BankDK
15000 DKK withdrawn
Send SMS alert
Receive fraud confirmation
Block customer's credit card
3 days
Alert
Fraud confirmation
Customer

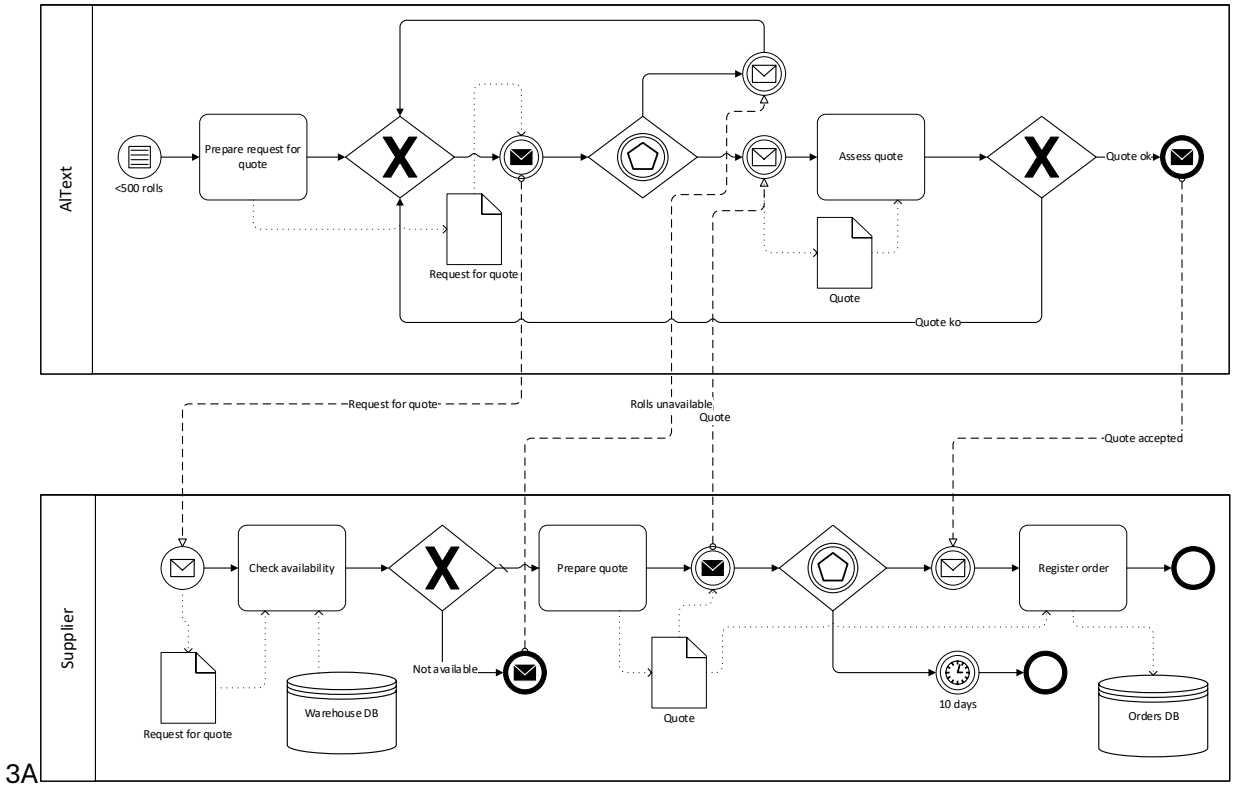
2C


BankDK
15000 DKK withdrawn
Send SMS alert
Receive fraud confirmation
3 days
Block customer's credit card
Alert
Fraud confirmation
Customer

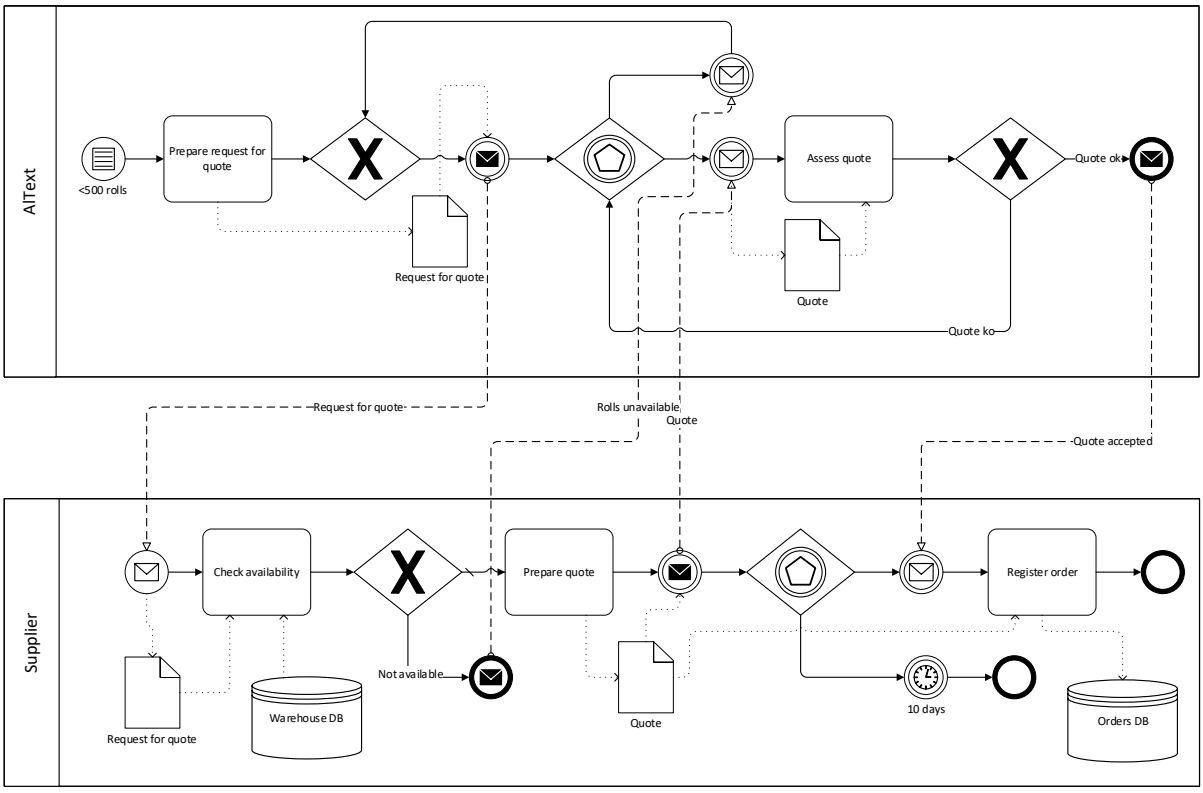

Receive fraud confirmation subprocess
Receive fraud confirmation

2D

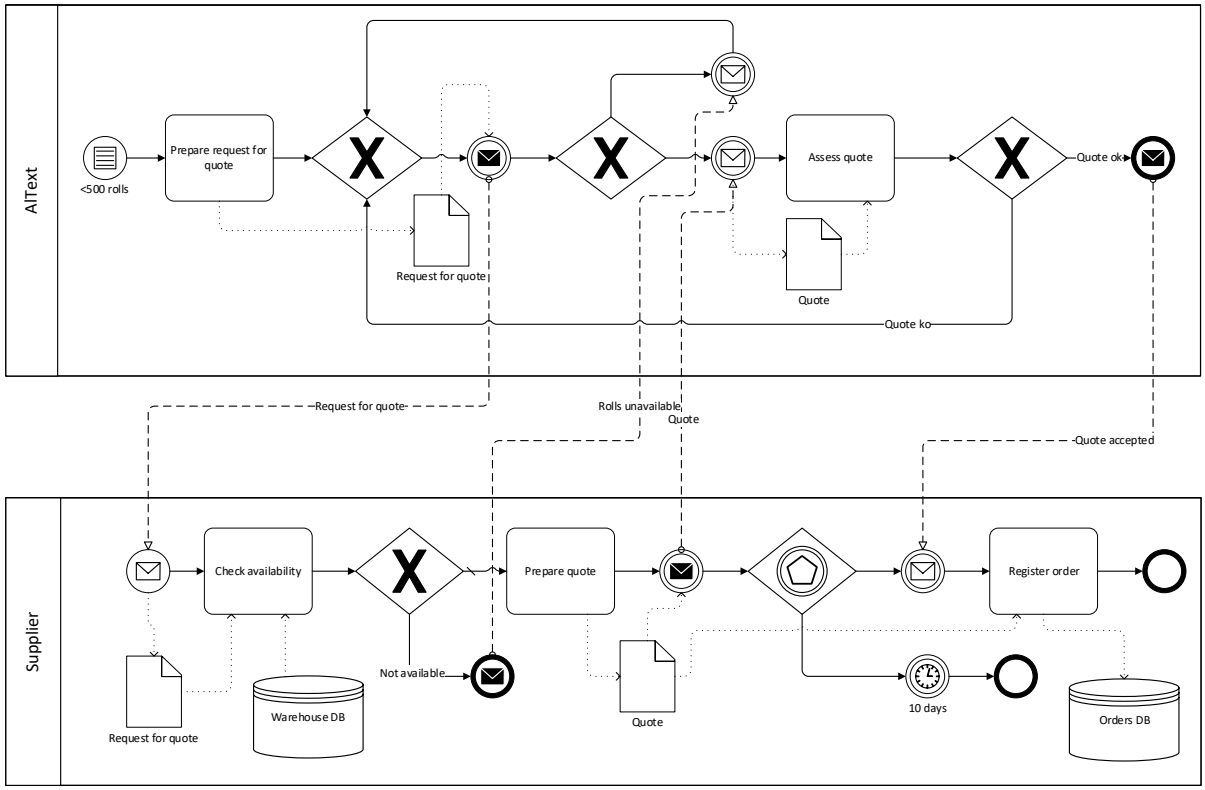
Section 3: AlText process model



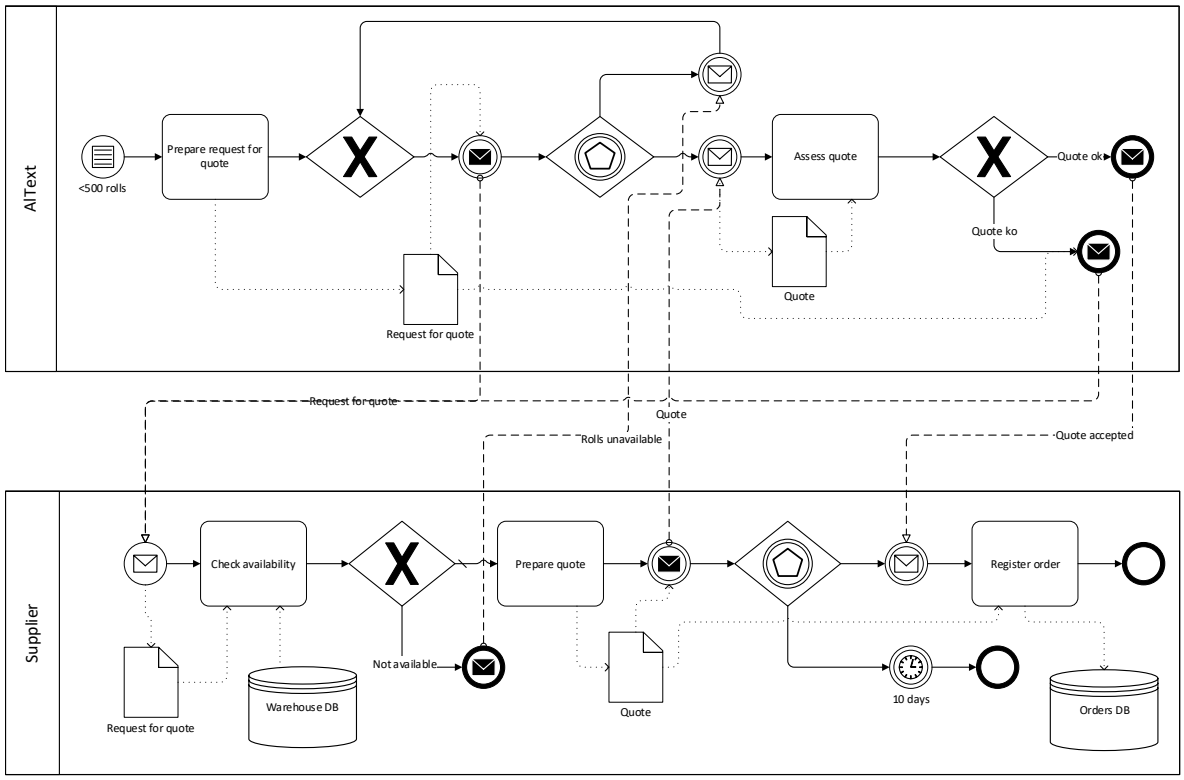
3A



3B

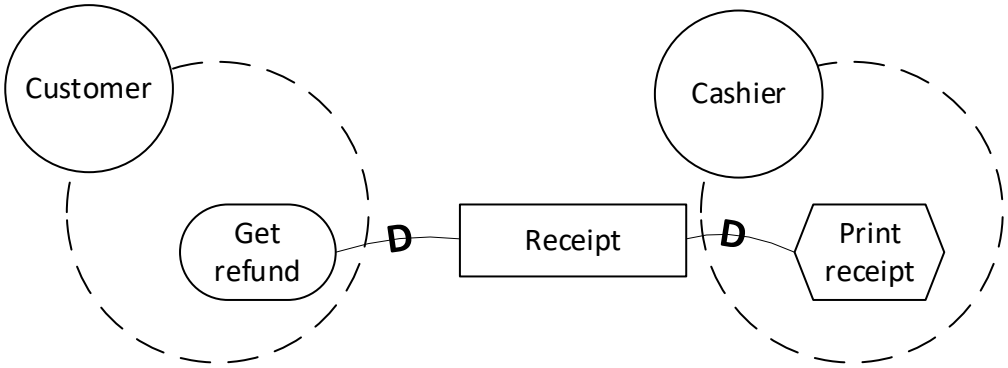

AlText
<500 rolls
Prepare request for quote
Request for quote
Assess quote
Quote
Quote ok
Quote ko
Request for quote
Rolls unavailable
Quote
Quote accepted
Supplier
Check availability
Prepare quote
Register order
Not available
Request for quote
Warehouse DB
Quote
10 days
Orders DB

3C

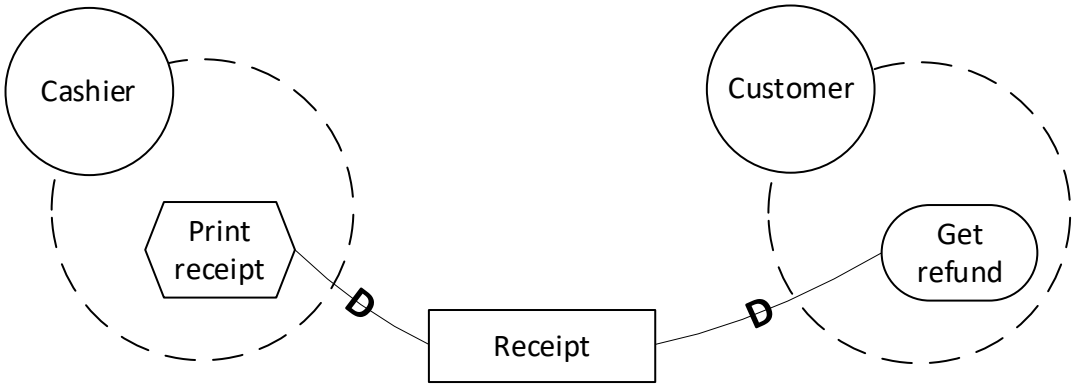

AlText
<500 rolls
Prepare request for quote
Request for quote
Assess quote
Quote
Quote ok
Quote ko
Request for quote
Quote
Rolls unavailable
Quote accepted
Supplier
Check availability
Prepare quote
Register order
Not available
Request for quote
Warehouse DB
Quote
10 days
Orders DB

3D

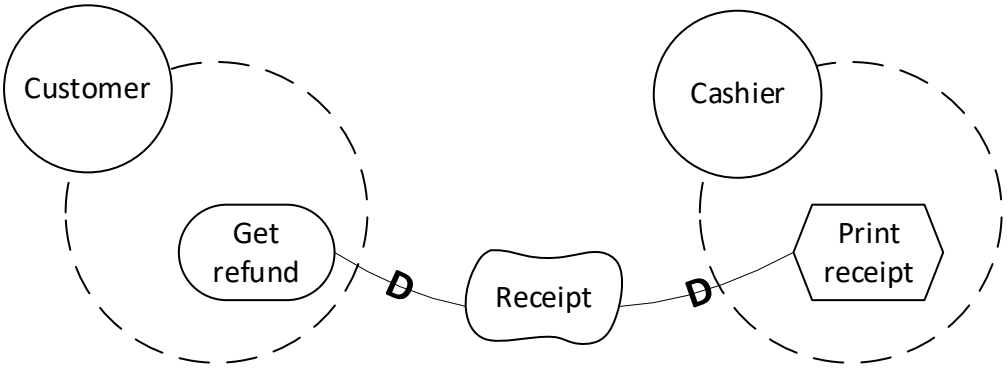
Section 4: Social dependencies



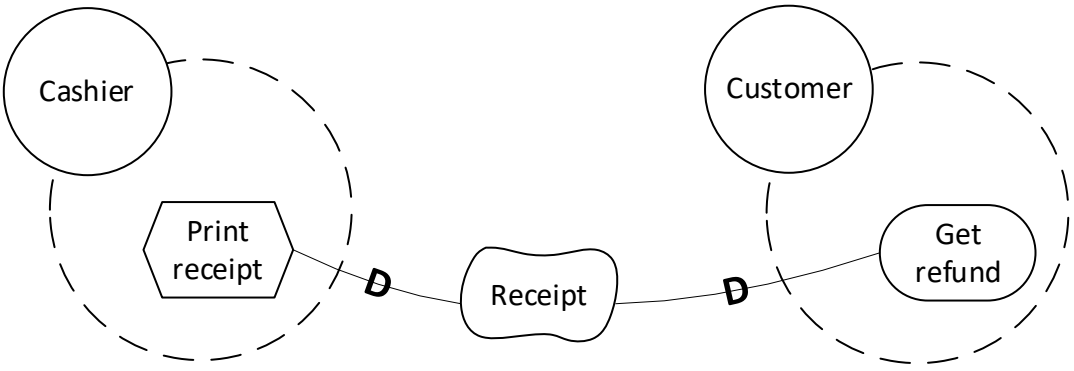
4A



4B

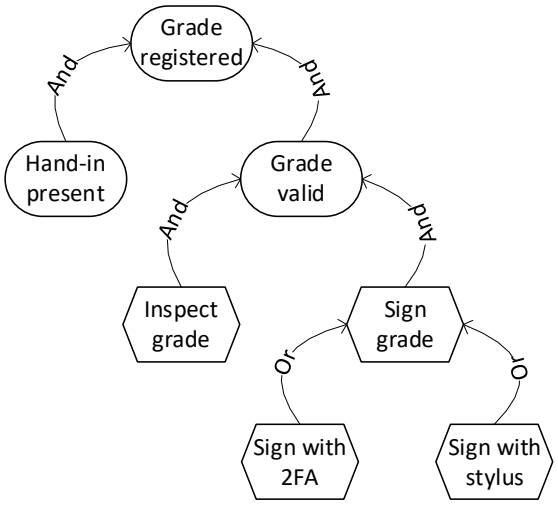


4C

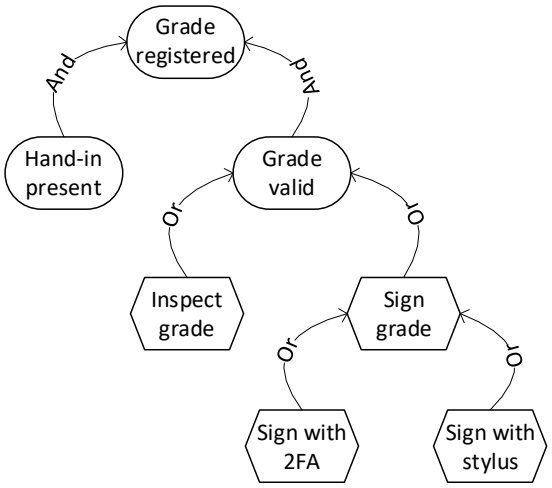


4D

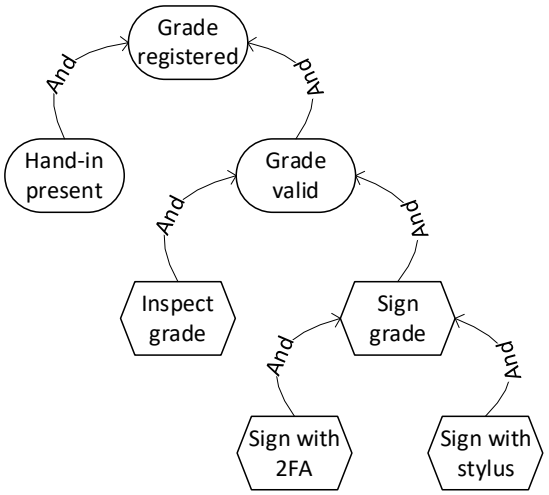
Section 5: Goal decomposition



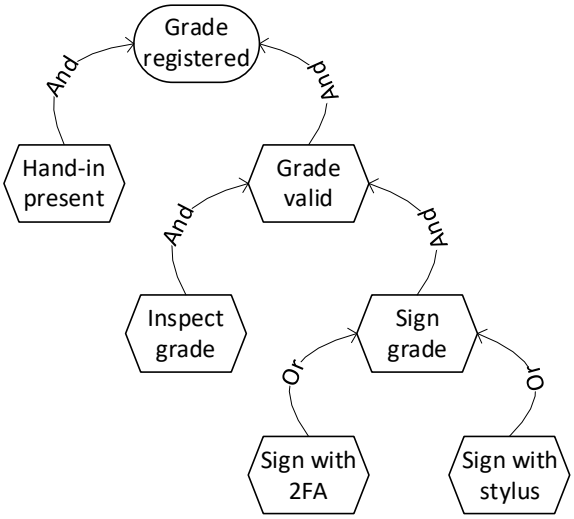
5A



5B

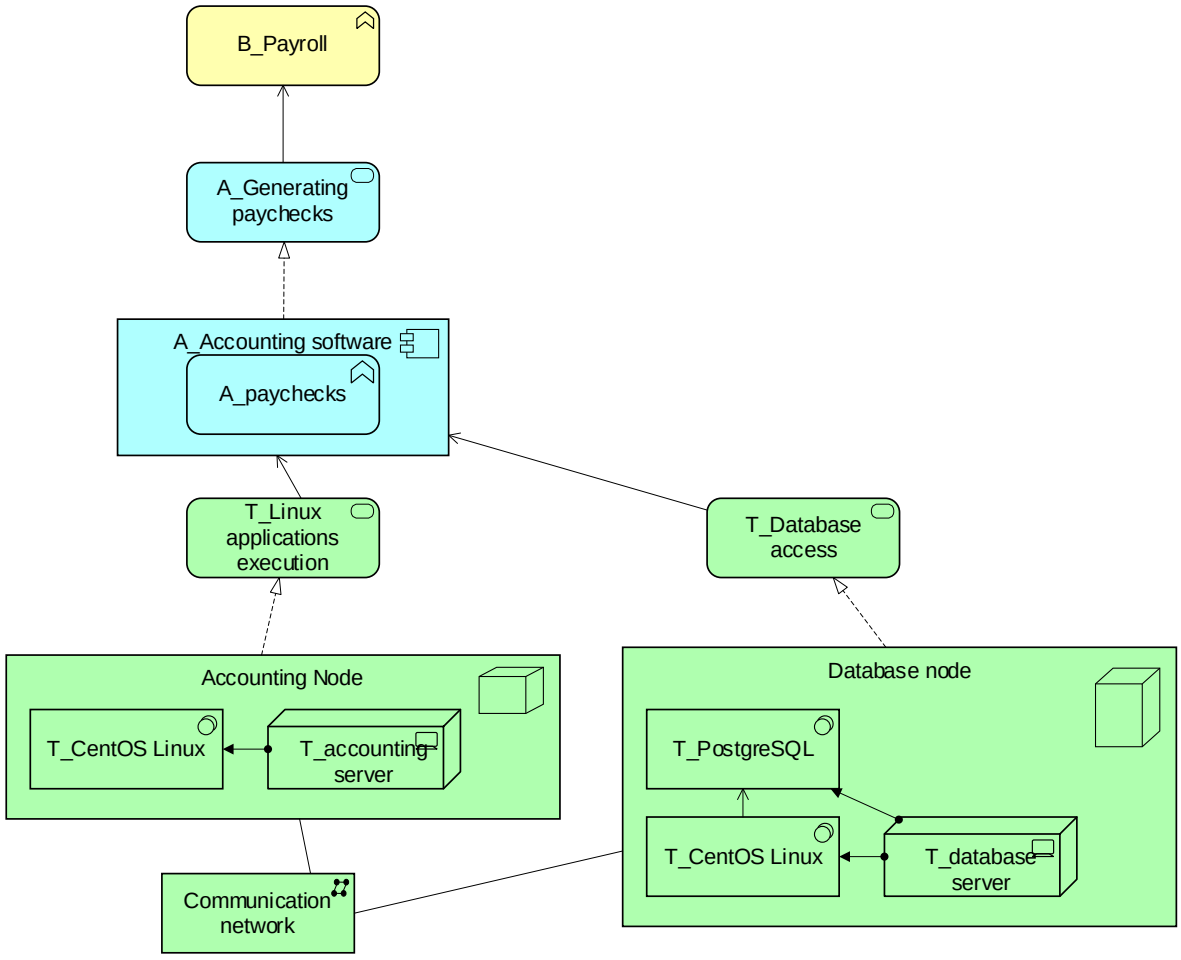


5C

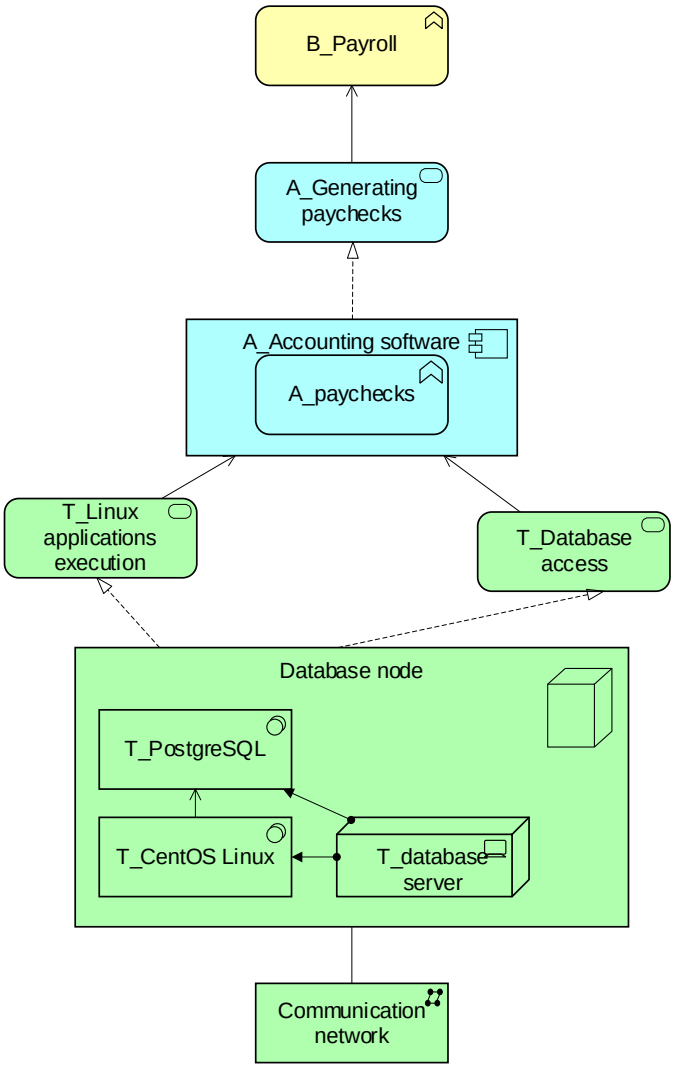


5D

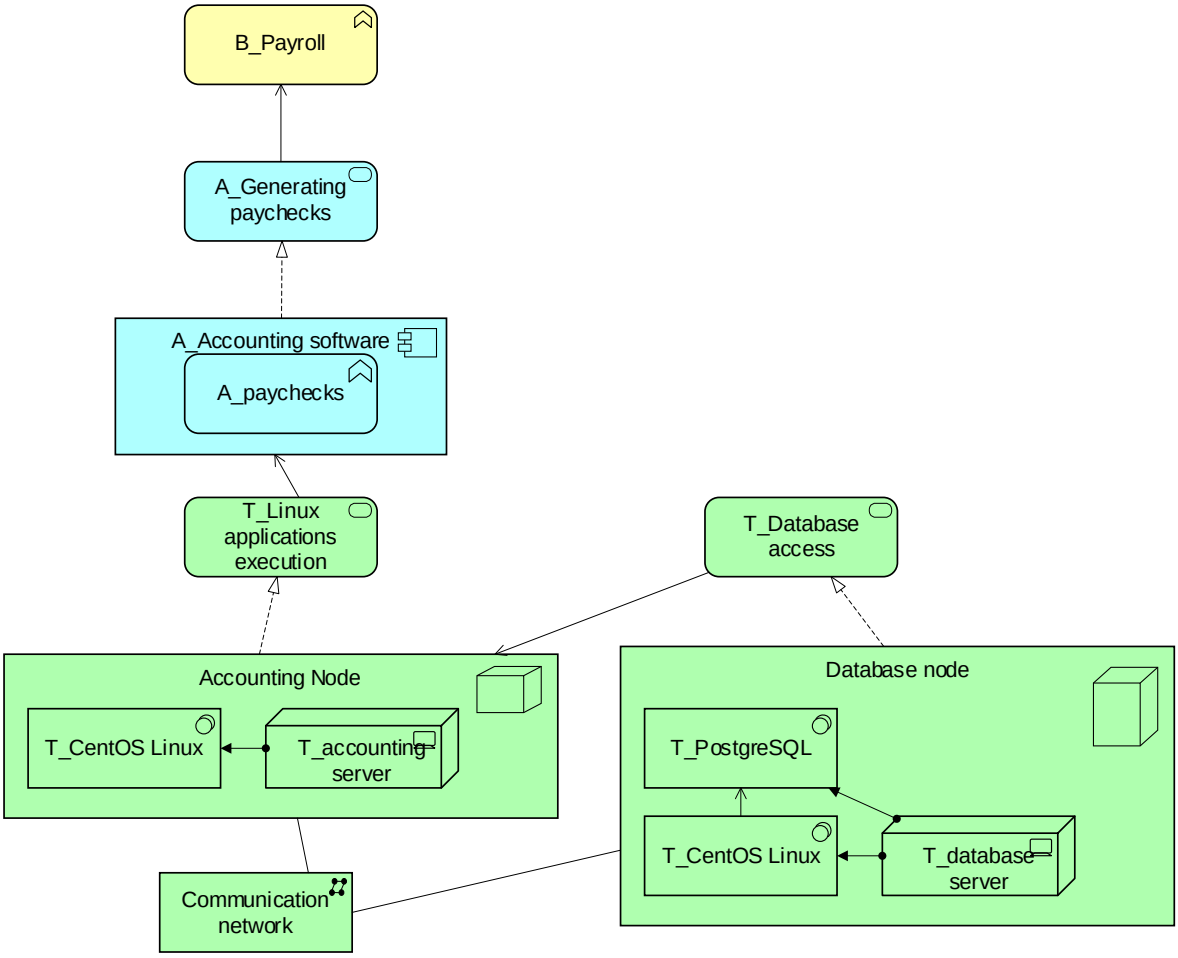
Section 6: Current architecture



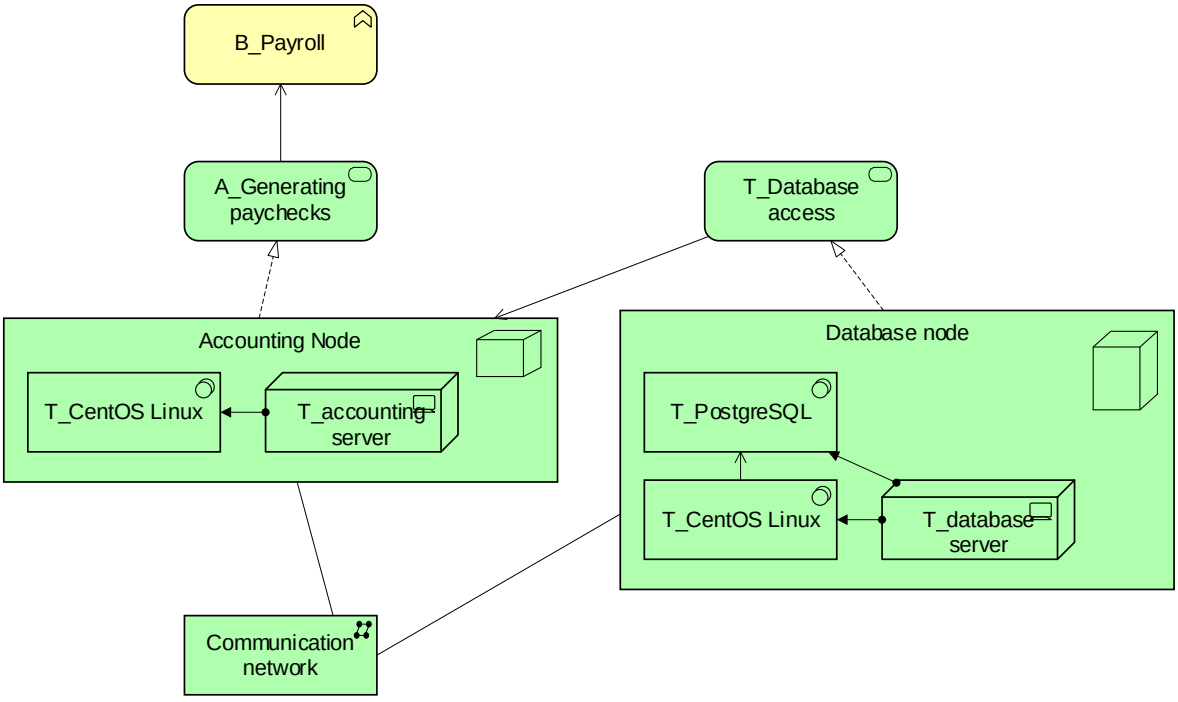
6A


B_Payroll
A_Generating paychecks
A_Accounting software
A_paychecks
T_Linux applications execution
T_Database access
Database node
T_PostgreSQL
T_CentOS Linux
T_database server
Communication network

6B

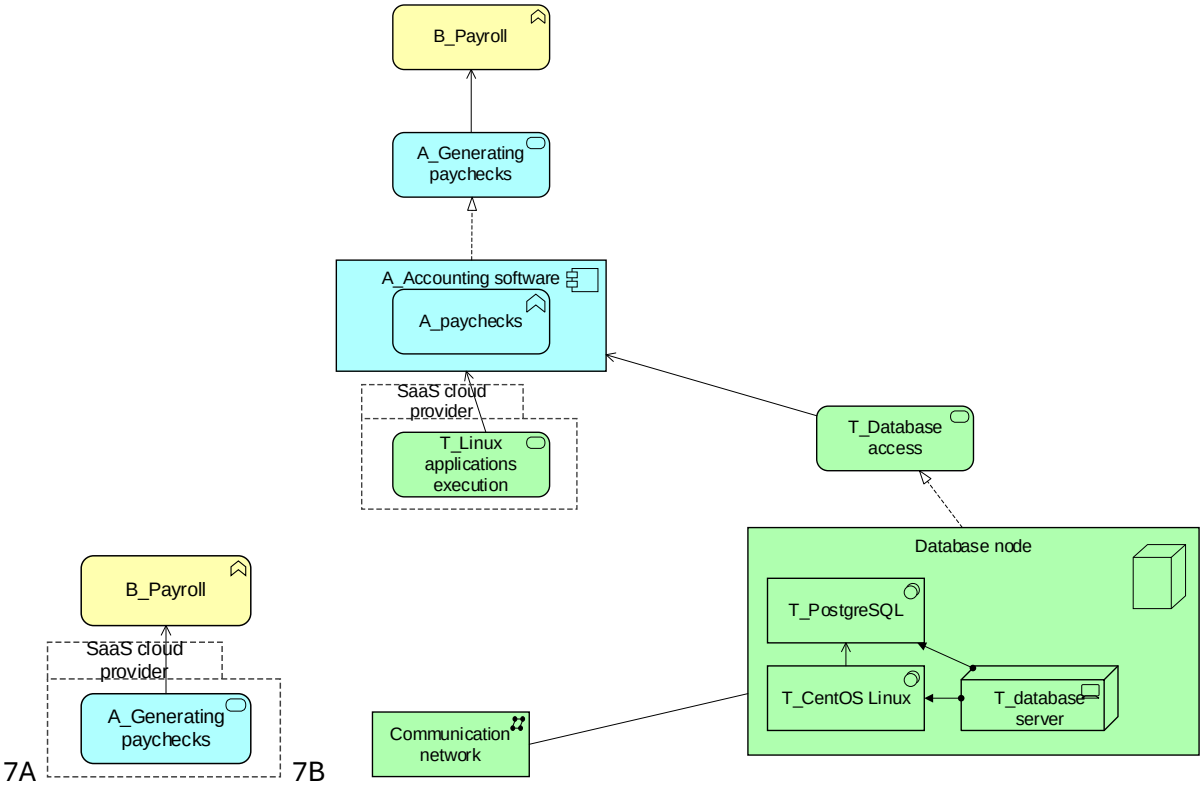

B_Payroll
A_Generating paychecks
A_Accounting software
A_paychecks
T_Linux applications execution
T_Database access
Accounting Node
T_CentOS Linux
T_accounting server
Database node
T_PostgreSQL
T_CentOS Linux
T_database server
Communication network

6C

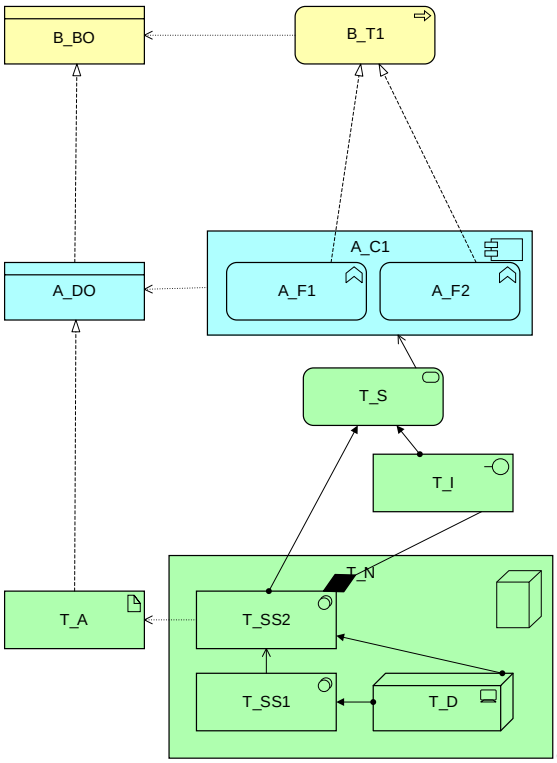

B_Payroll
A_Generating paychecks
T_Database access
Accounting Node
T_CentOS Linux
T_accounting server
Database node
T_PostgreSQL
T_CentOS Linux
T_database server
Communication network

6D

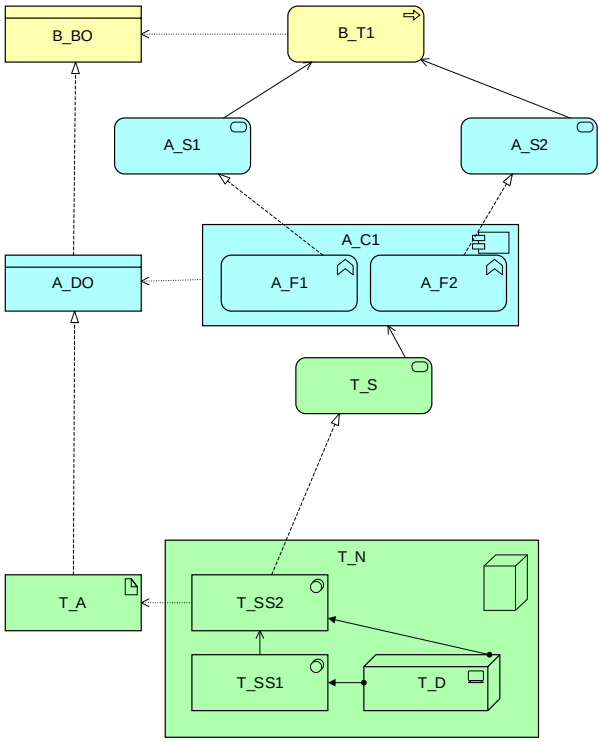
Section 7: New Architecture



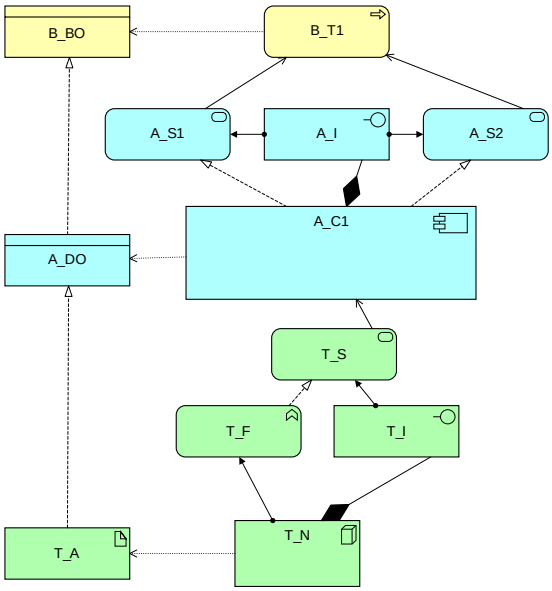
Section 8: Enterprise views



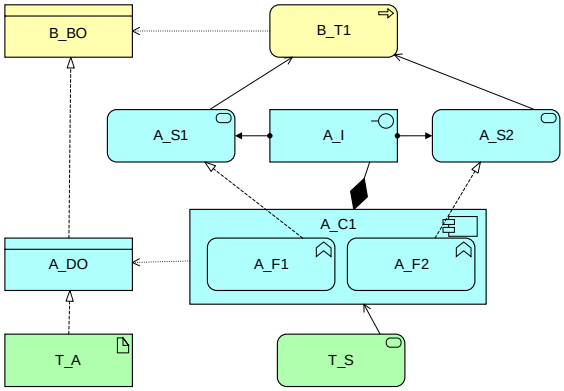
8A



8B



8C



8D