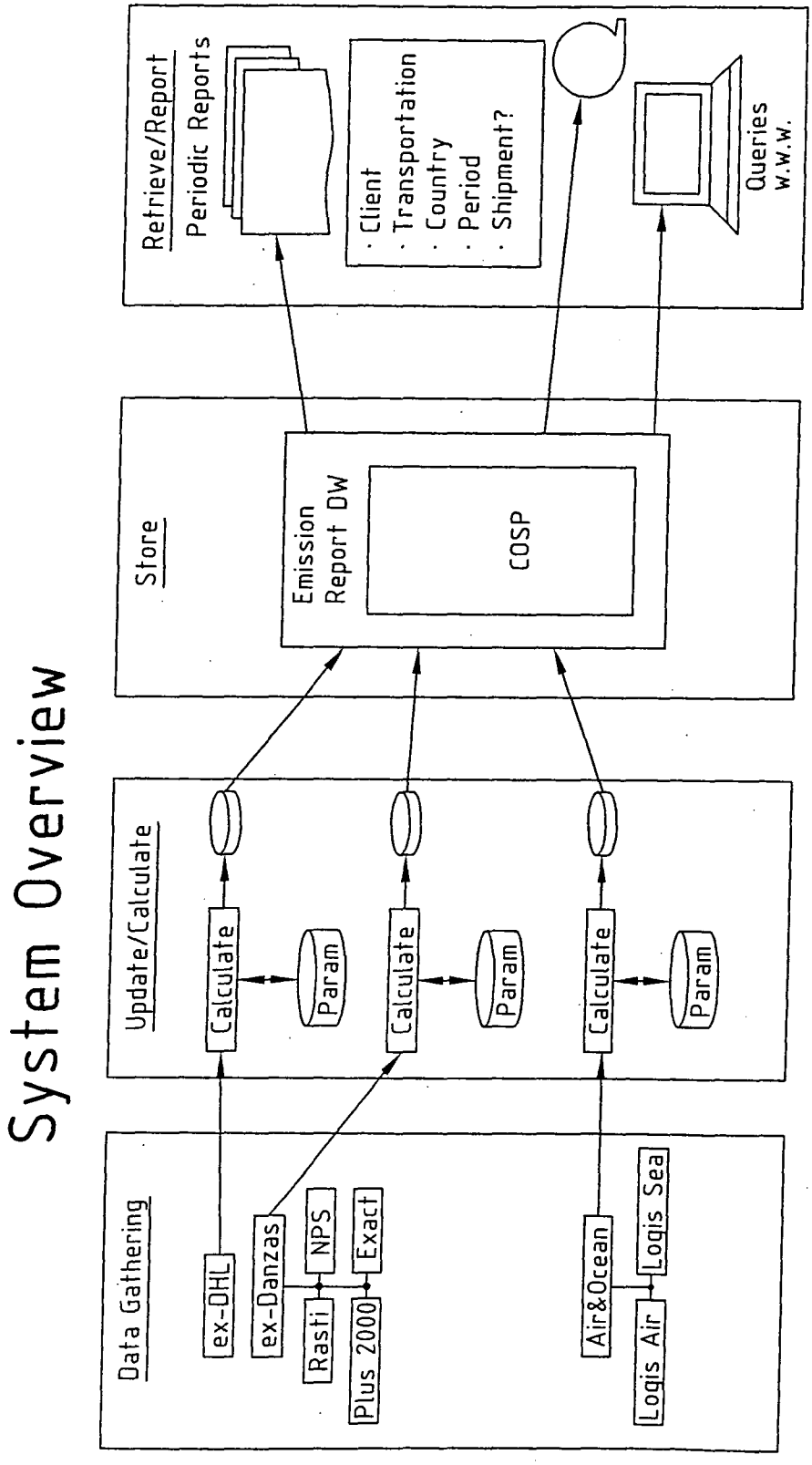

System Overview
Data Gathering
ex-DHL
ex-Danzas
Rasti
NPS
Plus 2000
Exact
Air&Ocean
Logis Air
Logis Sea
Update/Calculate
Calculate
Param
Calculate
Param
Calculate
Param
Store
Emission Report DW
COSP
Retrieve/Report
Periodic Reports
· Client
· Transportation
· Country
· Period
· Shipment?
Queries W.W.W.
Flexible, platforms can easily be addeded/replaced

Fig.1

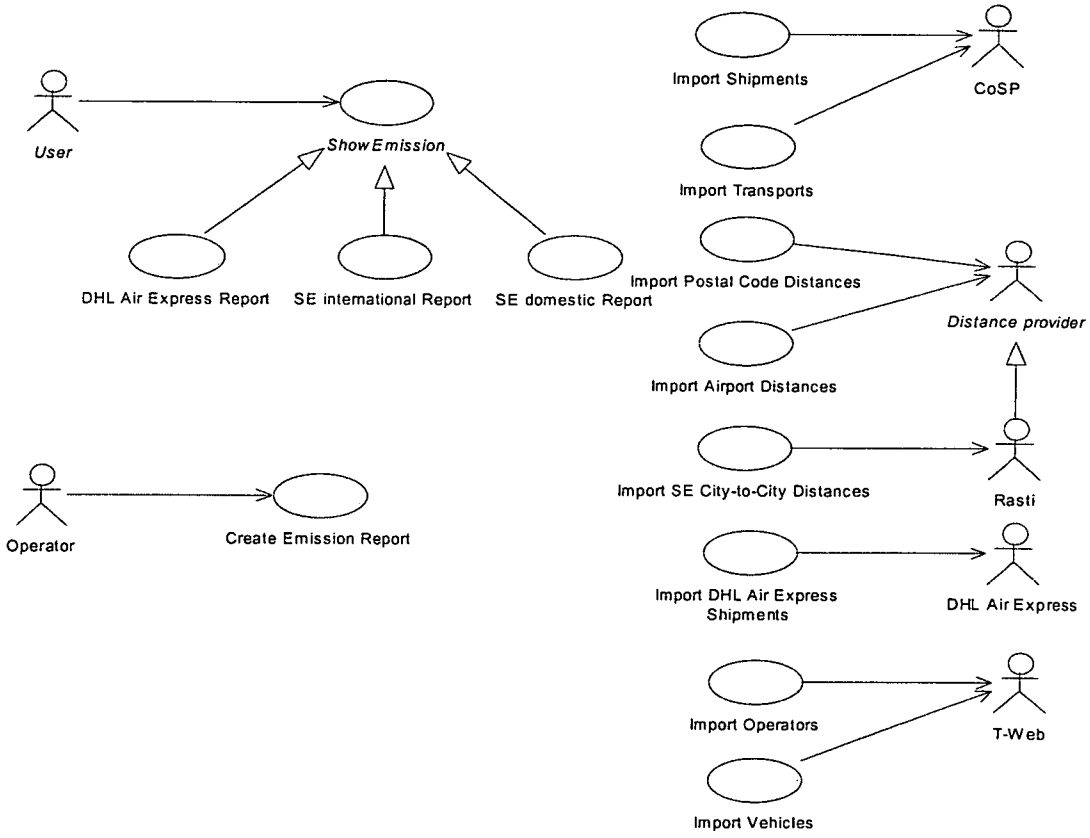

User
Show Emission
DHL Air Express Report
SE international Report
SE domestic Report
Import Shipments
CoSP
Import Transports
Import Postal Code Distances
Distance provider
Import Airport Distances
Import SE City-to-City Distances
Rasti
Operator
Create Emission Report
Import DHL Air Express Shipments
DHL Air Express
Import Operators
T-Web
Import Vehicles

Figure 2

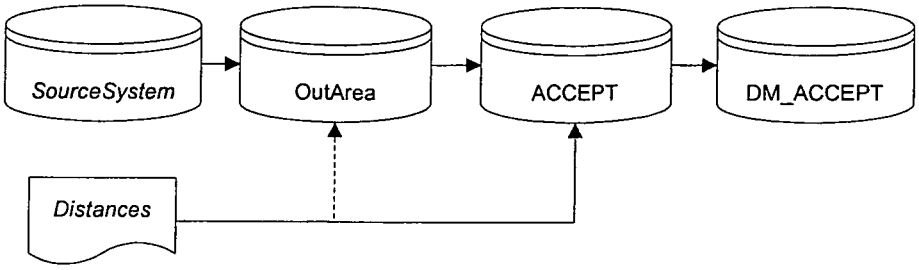


Figure 3

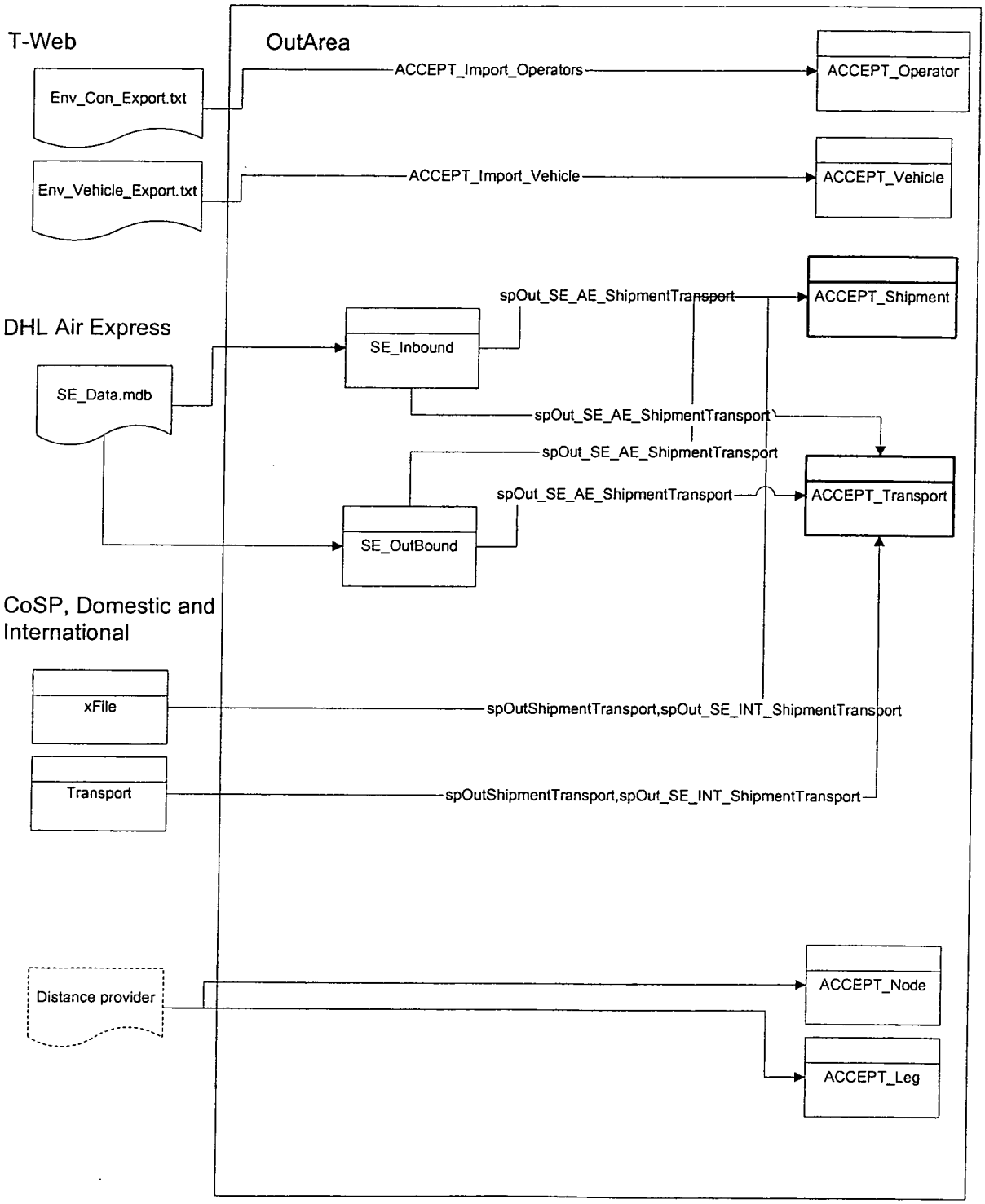

T-Web
OutArea
Env_Con_Export.txt
ACCEPT_Import_Operators
ACCEPT_Operator
Env_Vehicle_Export.txt
ACCEPT_Import_Vehicle
ACCEPT_Vehicle
spOut_SE_AE_ShipmentTransport
ACCEPT_Shipment
DHL Air Express
SE_Inbound
SE_Data.mdb
spOut_SE_AE_ShipmentTransport
spOut_SE_AE_ShipmentTransport
spOut_SE_AE_ShipmentTransport
ACCEPT_Transport
SE_OutBound
CoSP, Domestic and International
xFile
spOutShipmentTransport,spOut_SE_INT_ShipmentTransport
Transport
spOutShipmentTransport,spOut_SE_INT_ShipmentTransport
Distance provider
ACCEPT_Node
ACCEPT_Leg

Figure 4

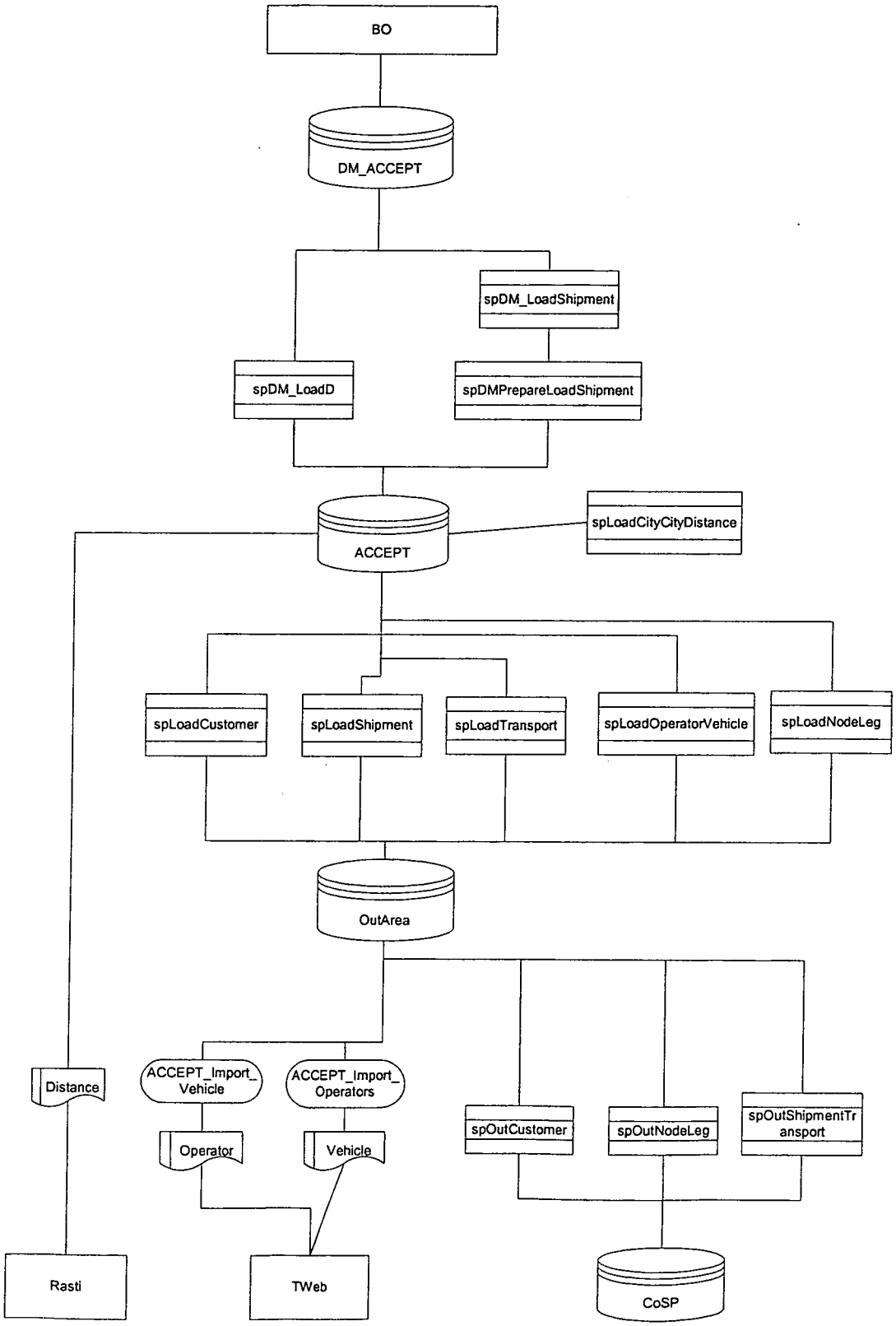
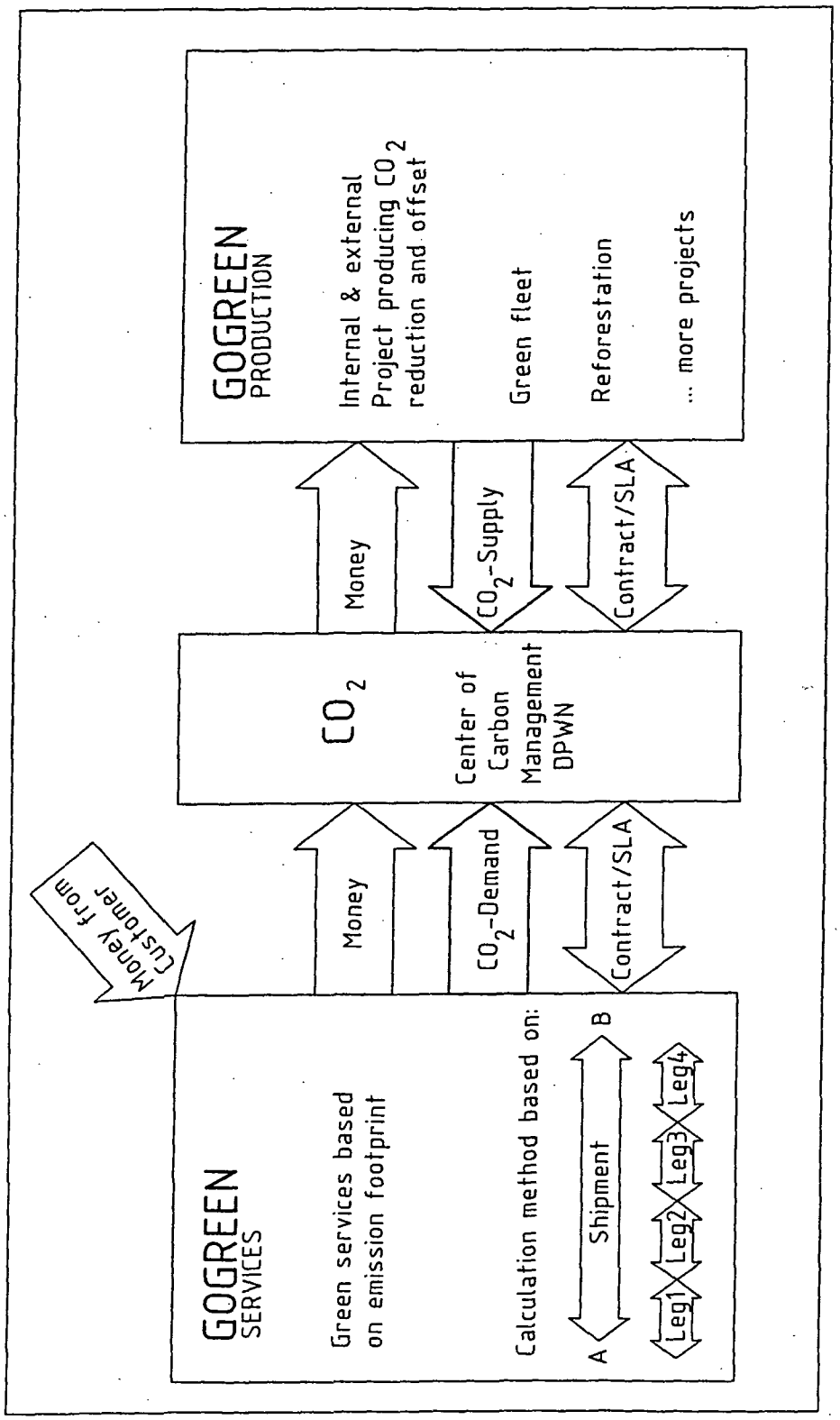

BO
DM_ACCEPT
spDM_LoadShipment
spDM_LoadD
spDMPrepareLoadShipment
ACCEPT
spLoadCityCityDistance
spLoadCustomer
spLoadShipment
spLoadTransport
spLoadOperatorVehicle
spLoadNodeLeg
OutArea
Distance
ACCEPT_Import_ Vehicle
ACCEPT_Import_ Operators
spOutCustomer
spOutNodeLeg
spOutShipmentTr ansport
Operator
Vehicle
Rasti
TWeb
CoSP

Figure 5



Core processes of the GO GREEN implementation

Fig.6

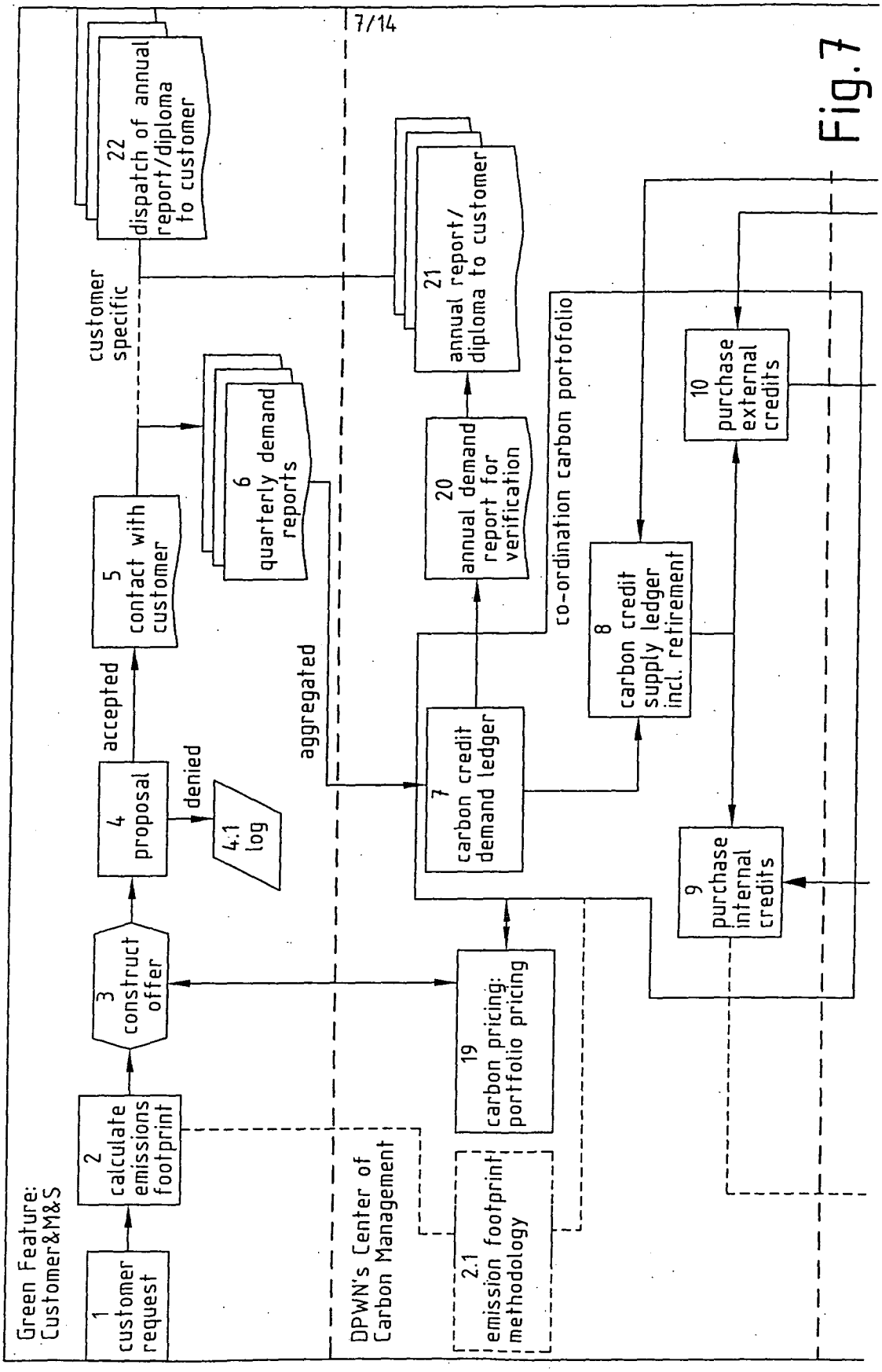
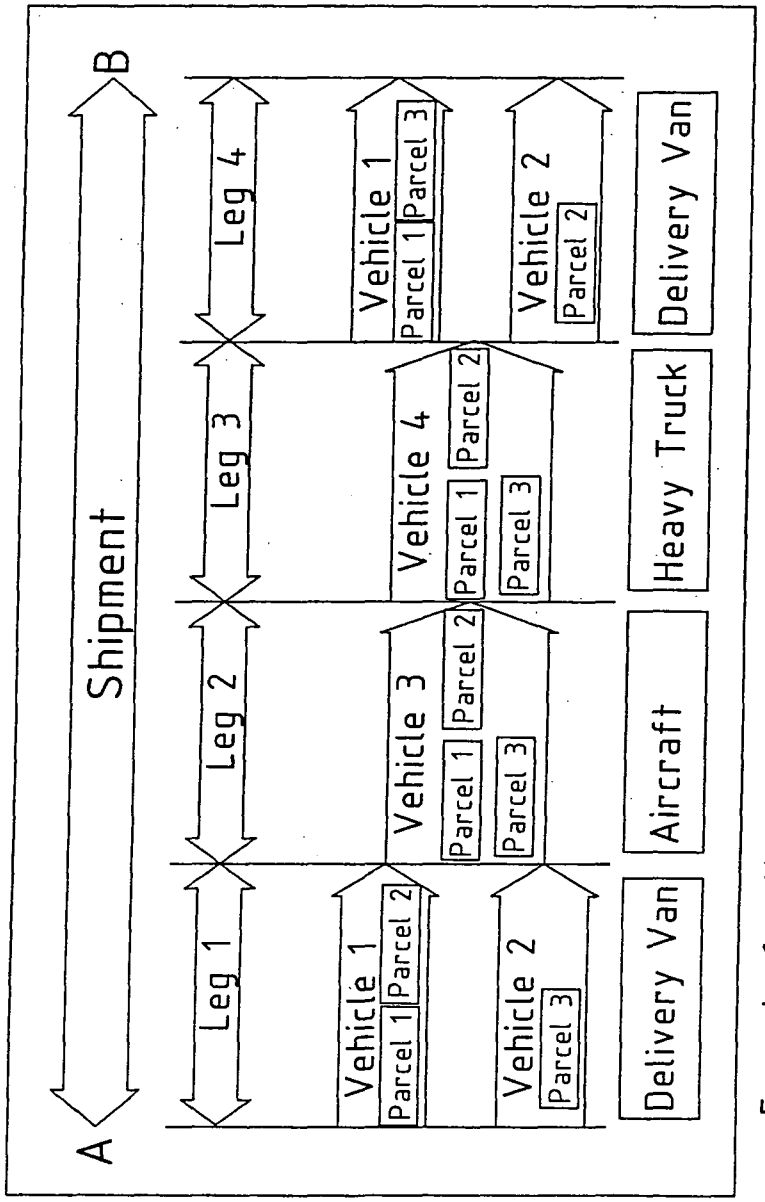
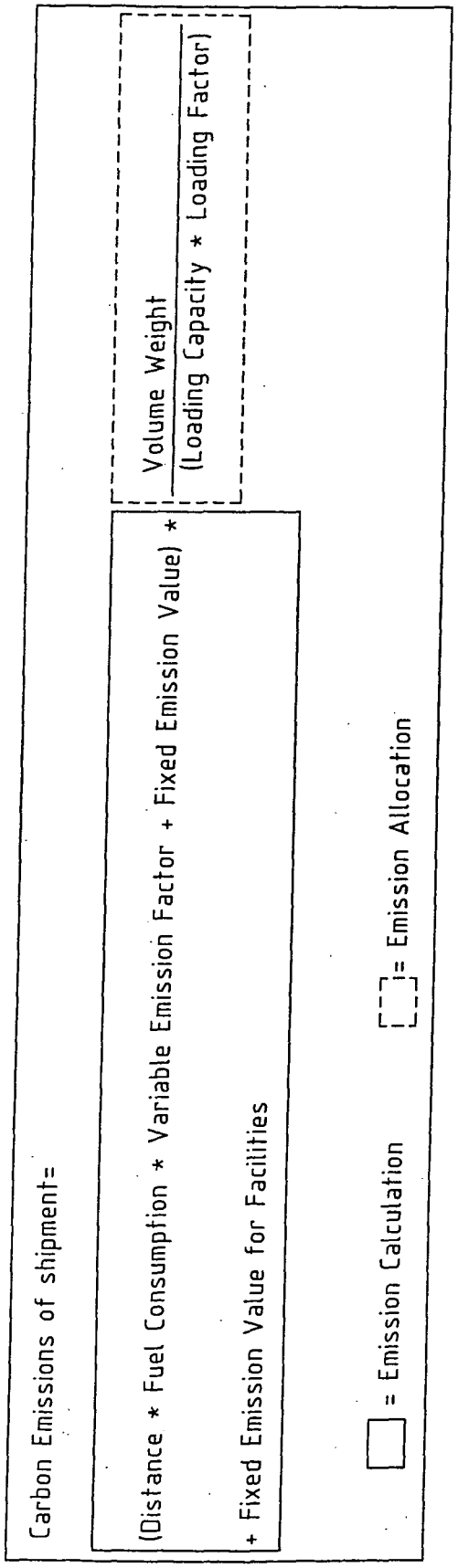

7/14
Green Feature: Customer&M&S
1 customer request
2 calculate emissions footprint
2.1 emission footprint methodology
DPWN's Center of Carbon Management
3 construct offer
4 proposal
accepted
denied
4.1 log
5 contact with customer
customer specific
6 quarterly demand reports
aggregated
7 carbon credit demand ledger
8 carbon credit supply ledger incl. retirement
9 purchase internal credits
10 purchase external credits
19 carbon pricing: portfolio pricing
20 annual demand report for verification
co-ordination carbon portofolio
21 annual report/ diploma to customer
22 dispatch of annual report/diploma to customer

Fig. 7



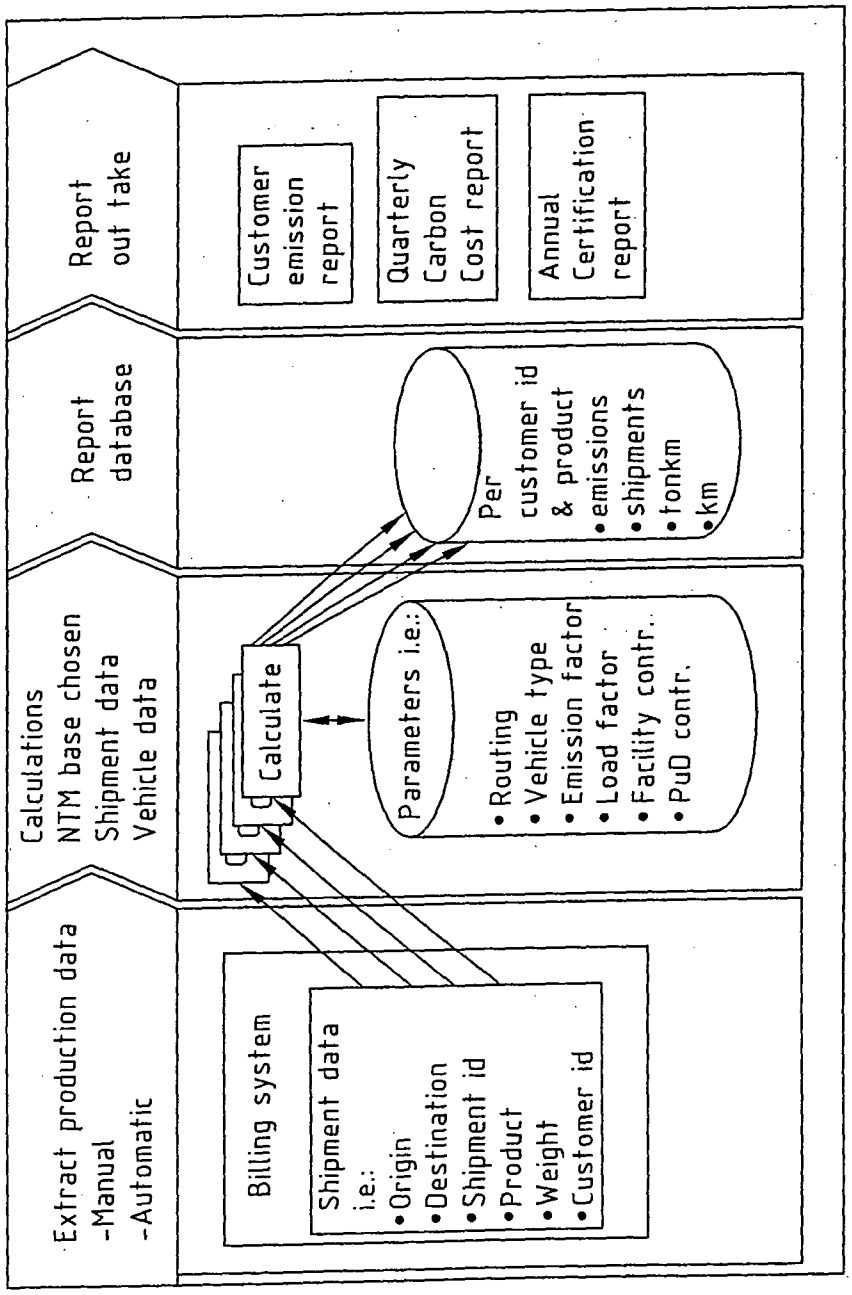
Example for the use of legs in the emission calculation

Fig.8



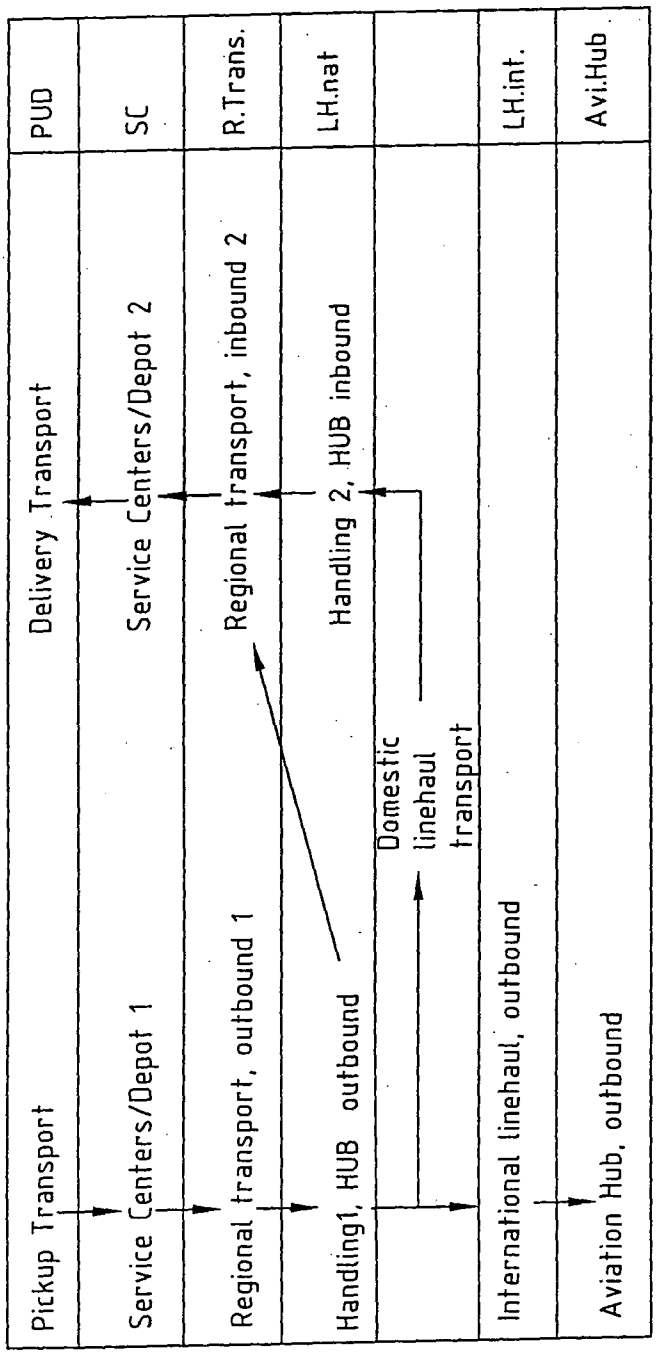
Formula for the calculation of carbon emmission from each leg

Fig.9



Outline of the data flows for emission calculation with ACCEPT

Fig.10



Model of transport process

Fig.11

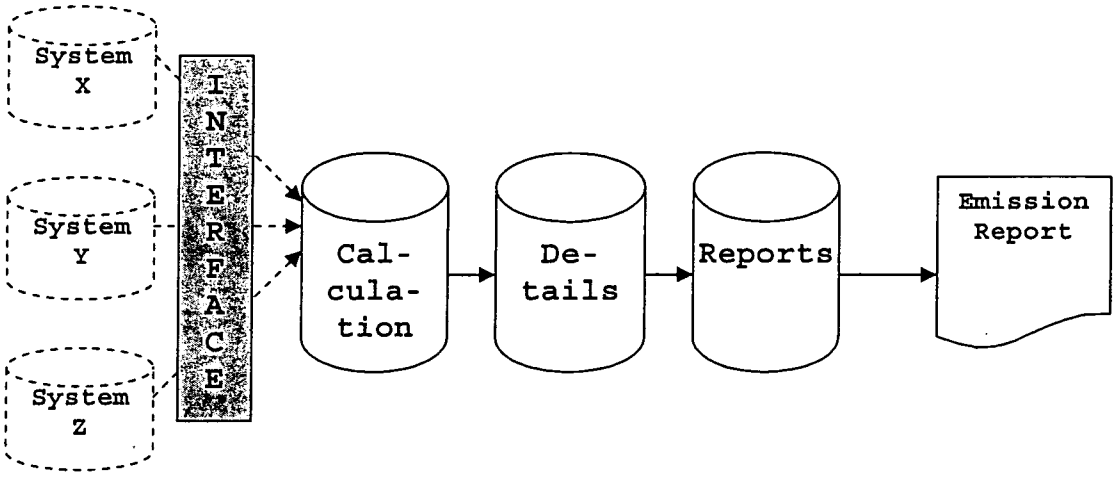

System X
System Y
System Z
INTERFACE
Cal-cula-tion
De-tails
Reports
Emission Report

Figure 12

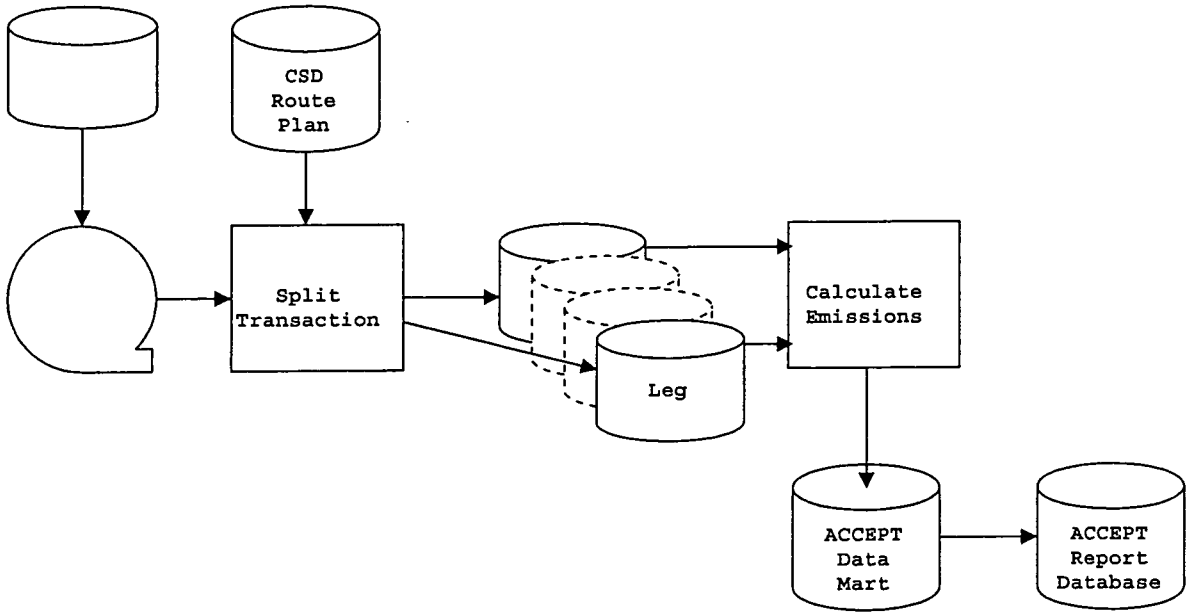
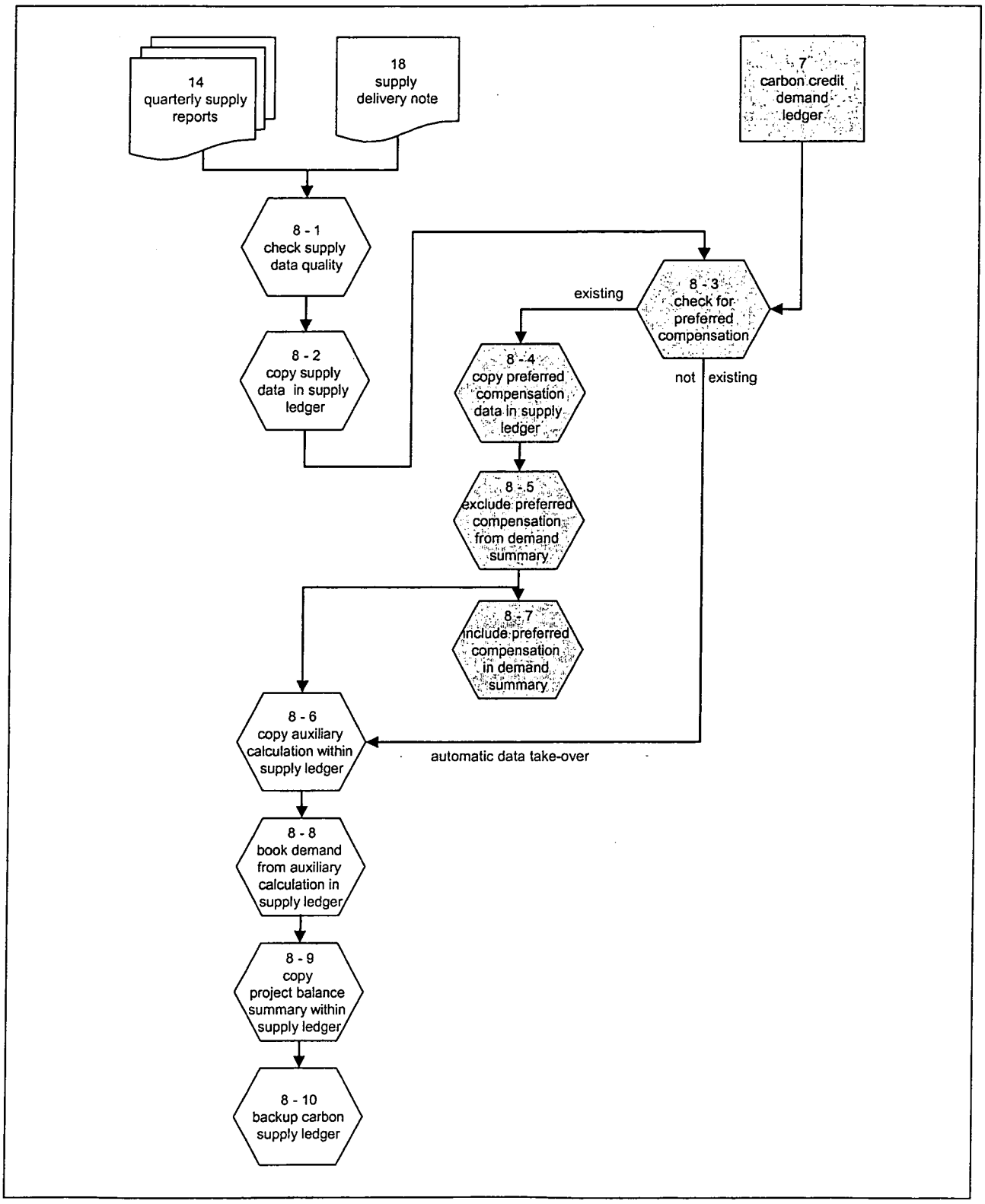

CSD
Route
Plan
Split
Transaction
Leg
Calculate
Emissions
ACCEPT
Data
Mart
ACCEPT
Report
Database

Figure 13



Process chart for accounting carbon credits in the carbon supply ledger

Figure 14