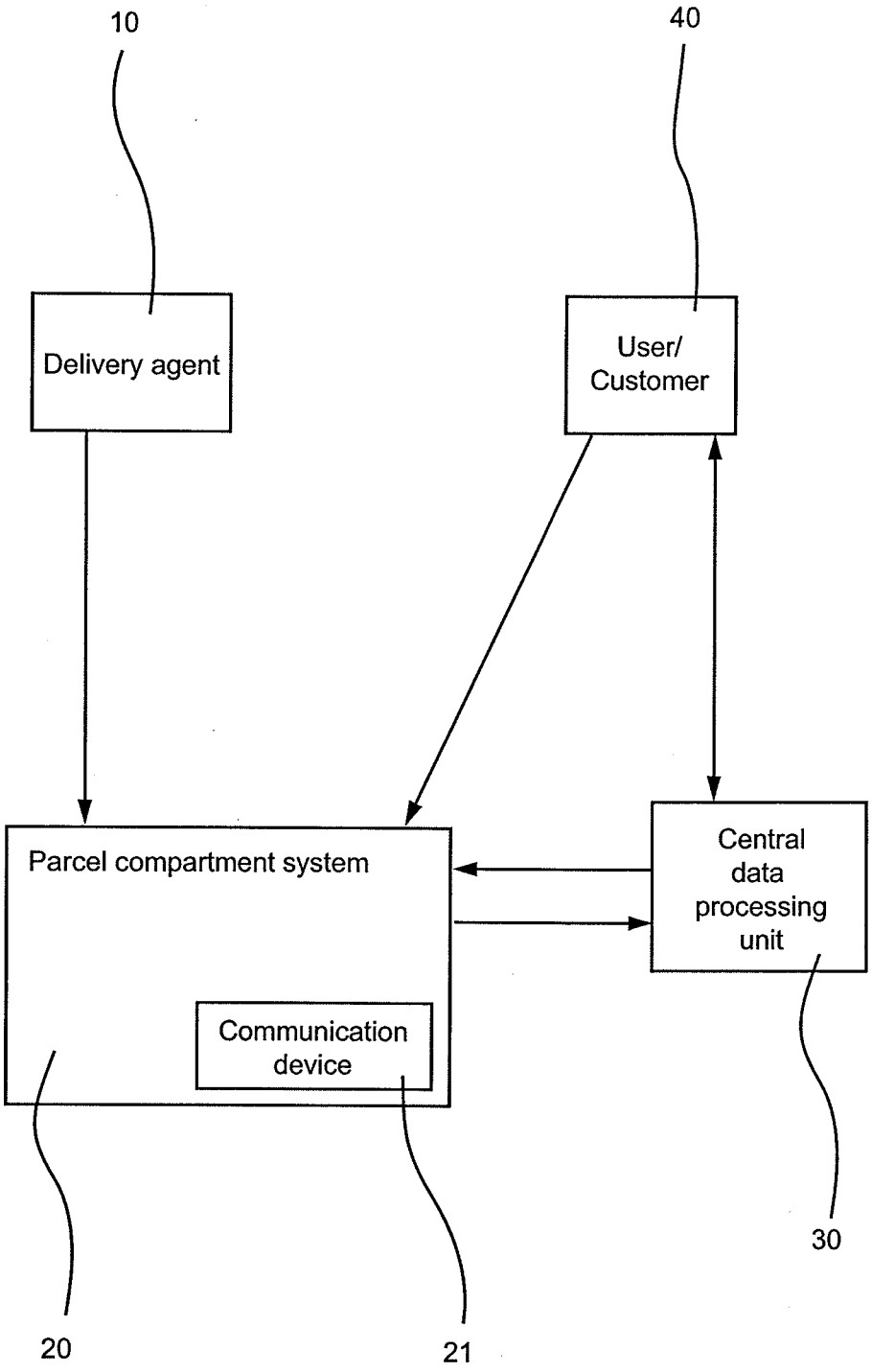

10
40
Delivery agent
User/
Customer
Parcel compartment system
Central
data
processing
unit
Communication
device
20
21
30

Fig. 1

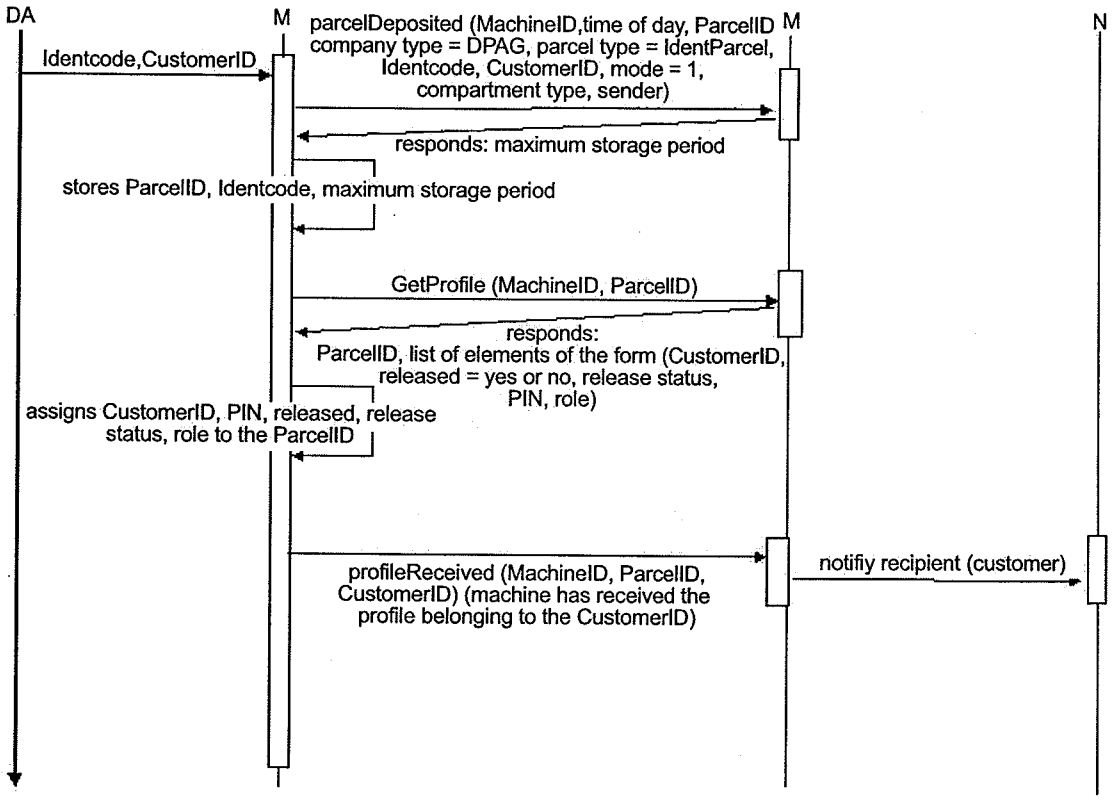

DA
M
parcelDeposited (MachineID,time of day, ParcelID
company type = DPAG, parcel type = IdentParcel,
Identcode, CustomerID, mode = 1,
compartment type, sender)
M
N
Identcode,CustomerID
responds: maximum storage period
stores ParcelID, Identcode, maximum storage period
GetProfile (MachineID, ParcelID)
responds:
ParcelID, list of elements of the form (CustomerID,
released = yes or no, release status,
PIN, role)
assigns CustomerID, PIN, released, release
status, role to the ParcelID
profileReceived (MachineID, ParcelID,
CustomerID) (machine has received the
profile belonging to the CustomerID)
notifiy recipient (customer)

Fig.2

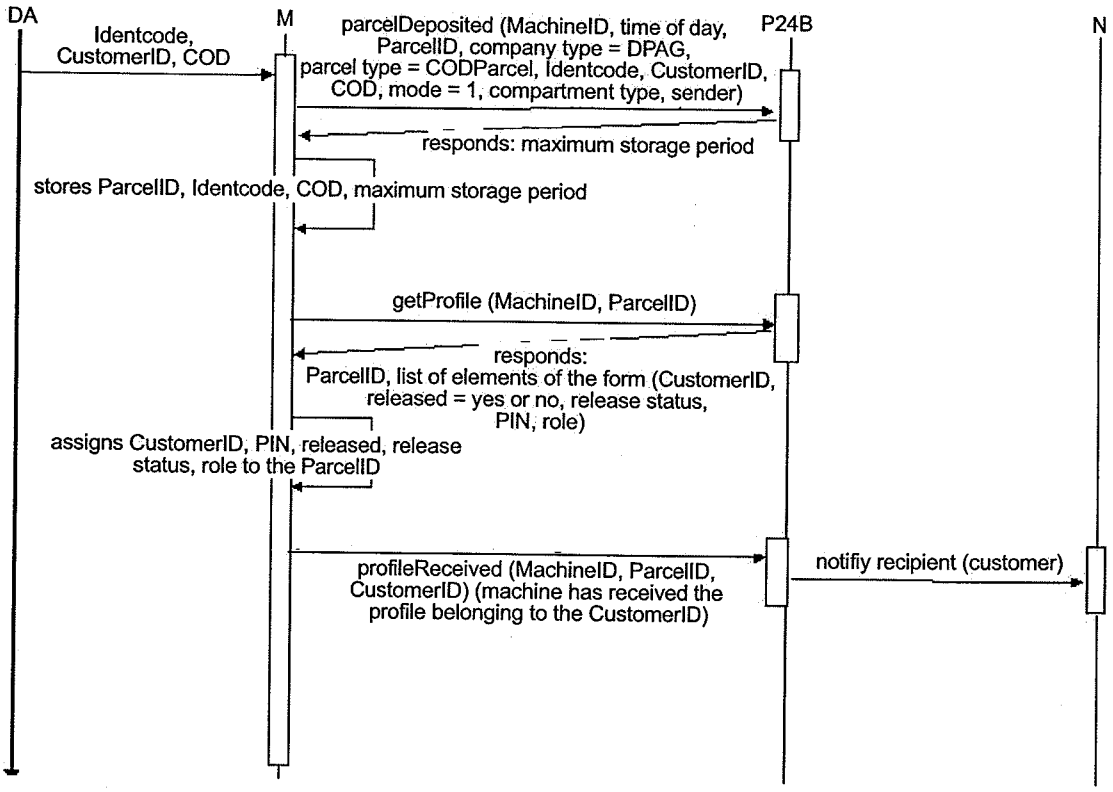

DA
M
P24B
N
Identcode, CustomerID, COD
parcelDeposited (MachineID, time of day, ParcelID, company type = DPAG, parcel type = CODParcel, Identcode, CustomerID, COD, mode = 1, compartment type, sender)
responds: maximum storage period
stores ParcelID, Identcode, COD, maximum storage period
getProfile (MachineID, ParcelID)
responds: ParcelID, list of elements of the form (CustomerID, released = yes or no, release status, PIN, role)
assigns CustomerID, PIN, released, release status, role to the ParcelID
profileReceived (MachineID, ParcelID, CustomerID) (machine has received the profile belonging to the CustomerID)
notifiy recipient (customer)

Fig. 3

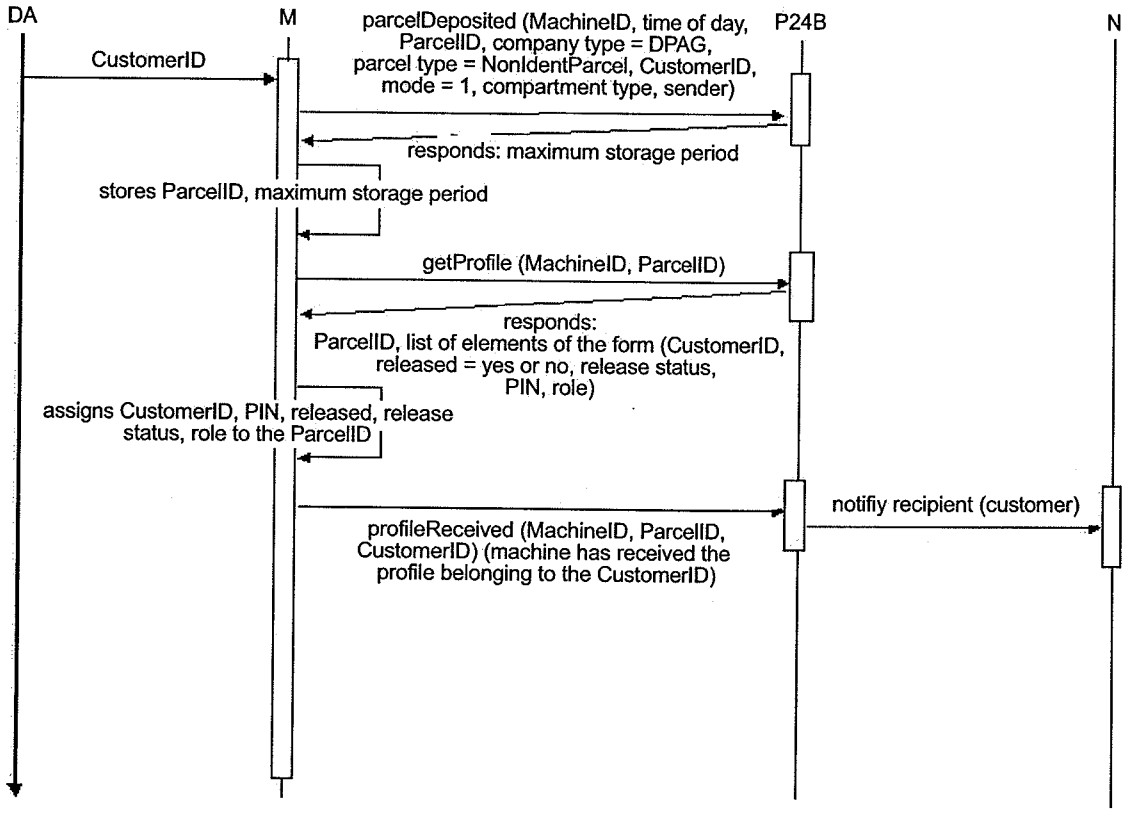

DA
M
P24B
N
CustomerID
parcelDeposited (MachineID, time of day, ParcelID, company type = DPAG, parcel type = NonIdentParcel, CustomerID, mode = 1, compartment type, sender)
responds: maximum storage period
stores ParcelID, maximum storage period
getProfile (MachineID, ParcelID)
responds: ParcelID, list of elements of the form (CustomerID, released = yes or no, release status, PIN, role)
assigns CustomerID, PIN, released, release status, role to the ParcelID
notifiy recipient (customer)
profileReceived (MachineID, ParcelID, CustomerID) (machine has received the profile belonging to the CustomerID)

Fig. 4

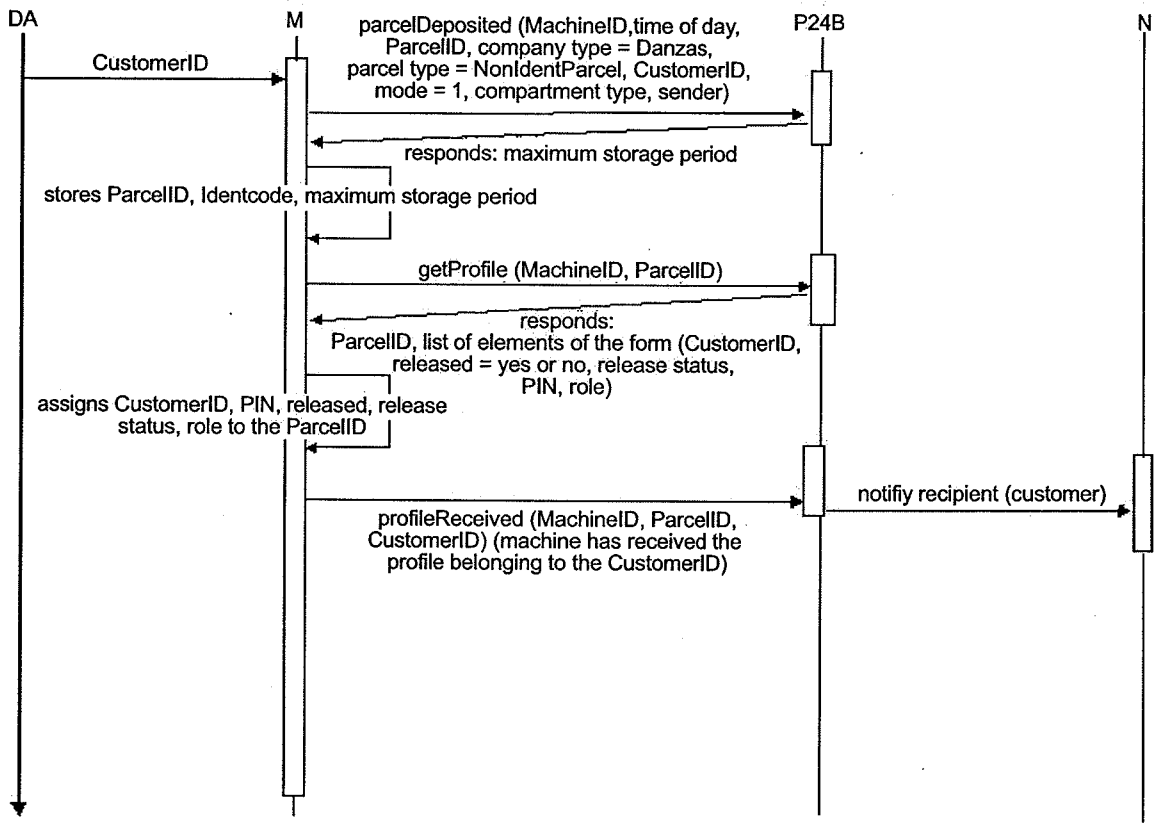

DA
M
P24B
N
CustomerID
parcelDeposited (MachineID,time of day, ParcelID, company type = Danzas, parcel type = NonIdentParcel, CustomerID, mode = 1, compartment type, sender)
responds: maximum storage period
stores ParcelID, Identcode, maximum storage period
getProfile (MachineID, ParcelID)
responds: ParcelID, list of elements of the form (CustomerID, released = yes or no, release status, PIN, role)
assigns CustomerID, PIN, released, release status, role to the ParcelID
notifiy recipient (customer)
profileReceived (MachineID, ParcelID, CustomerID) (machine has received the profile belonging to the CustomerID)

Fig. 5

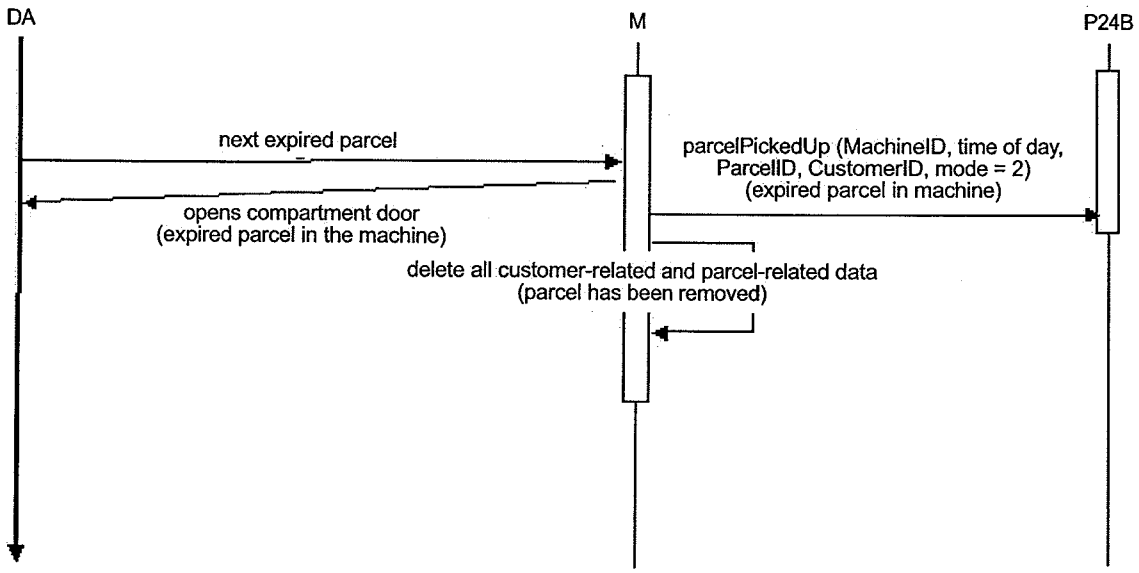

DA
M
P24B
next expired parcel
opens compartment door
(expired parcel in the machine)
parcelPickedUp (MachineID, time of day,
ParcelID, CustomerID, mode = 2)
(expired parcel in machine)
delete all customer-related and parcel-related data
(parcel has been removed)

Fig. 6

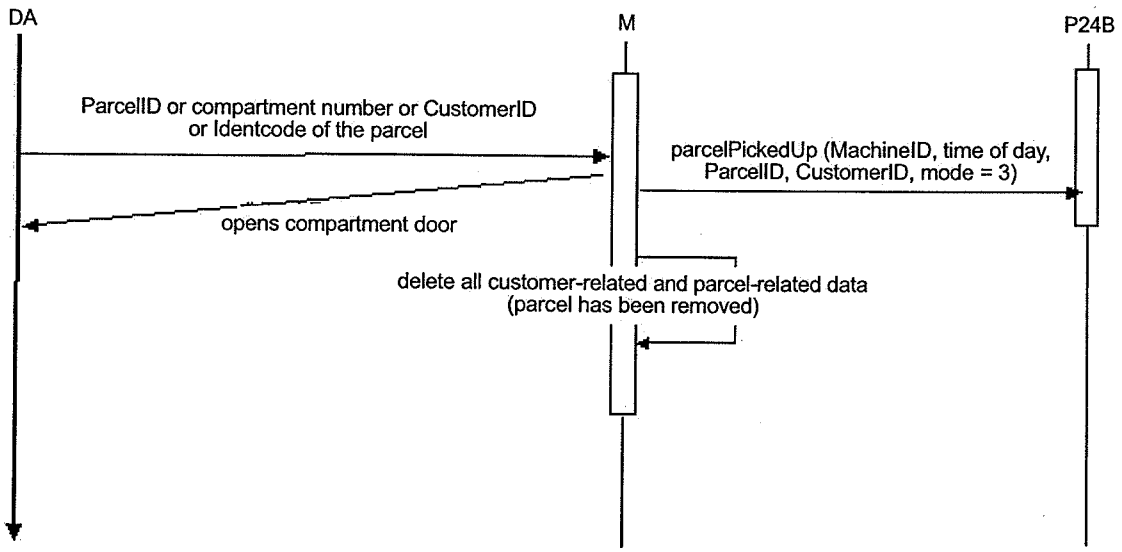

DA
M
P24B
ParcelID or compartment number or CustomerID
or Identcode of the parcel
parcelPickedUp (MachineID, time of day,
ParcelID, CustomerID, mode = 3)
opens compartment door
delete all customer-related and parcel-related data
(parcel has been removed)

Fig. 7

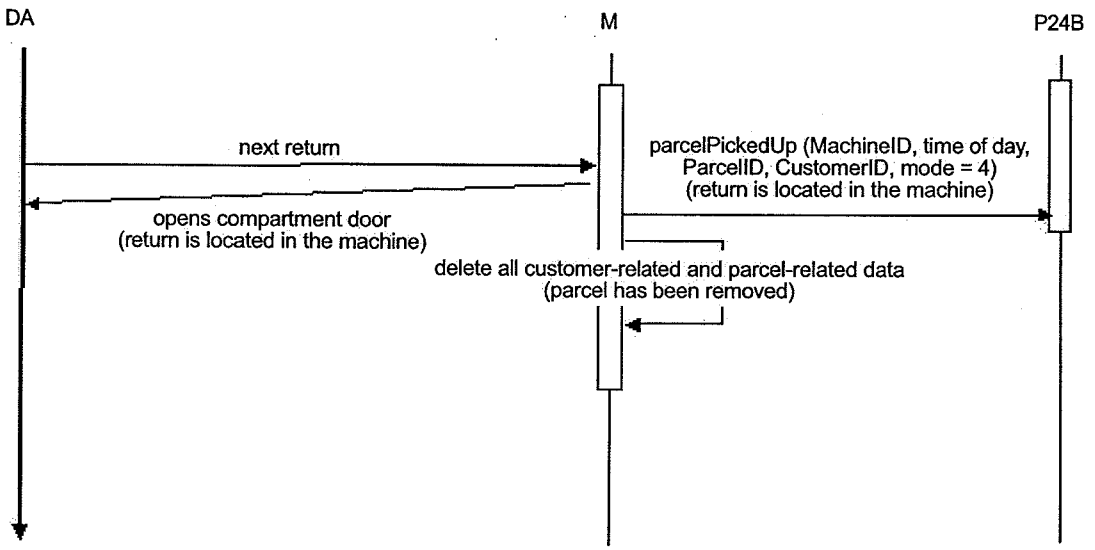

DA
M
P24B
next return
parcelPickedUp (MachineID, time of day,
ParcelID, CustomerID, mode = 4)
(return is located in the machine)
opens compartment door
(return is located in the machine)
delete all customer-related and parcel-related data
(parcel has been removed)

Fig. 8

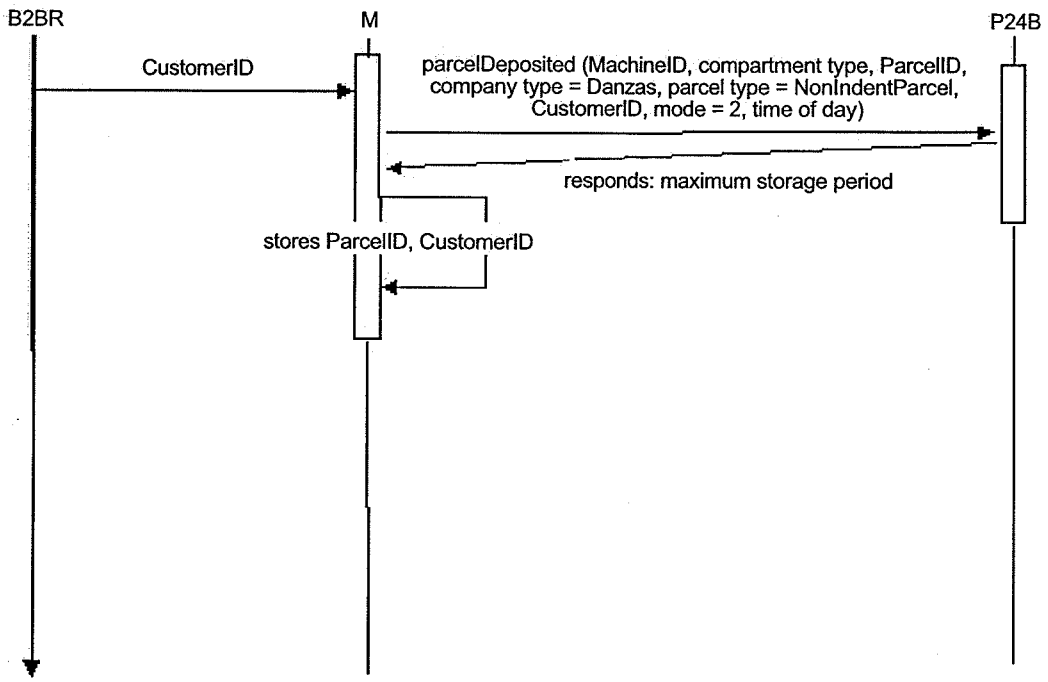

B2BR
M
P24B
CustomerID
parcelDeposited (MachineID, compartment type, ParcelID, company type = Danzas, parcel type = NonIndentParcel, CustomerID, mode = 2, time of day)
responds: maximum storage period
stores ParcelID, CustomerID

Fig. 9

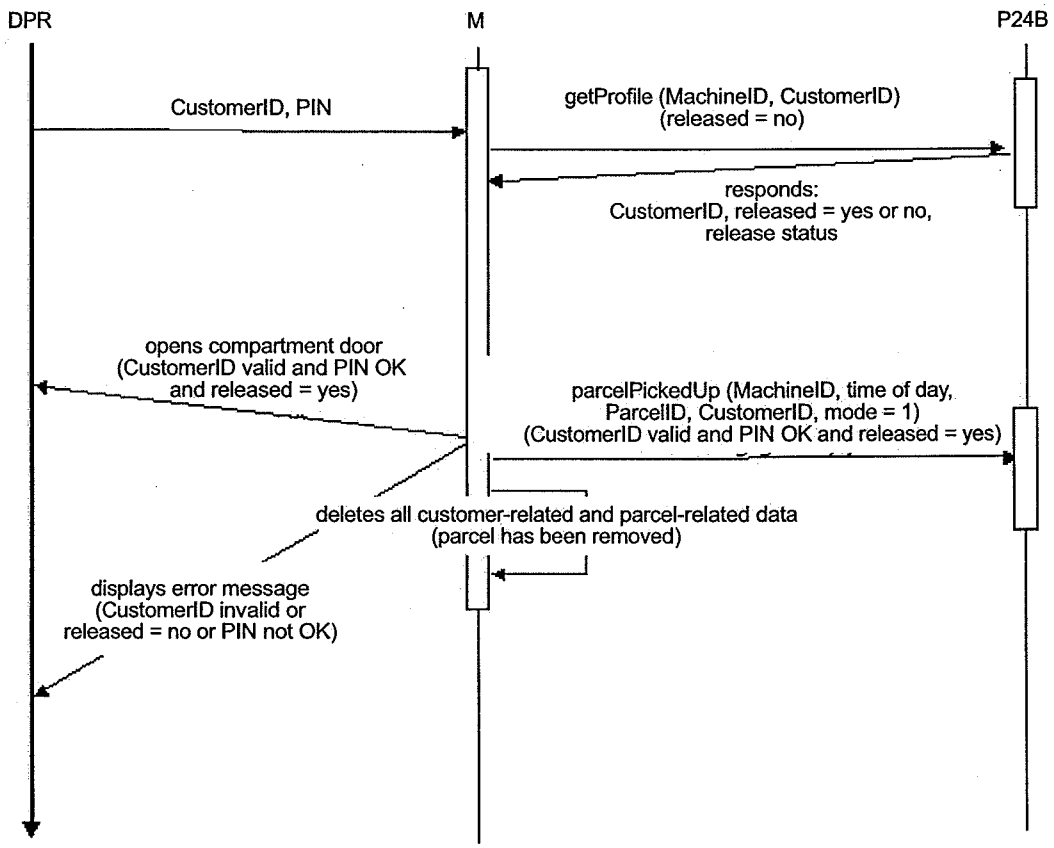

DPR
M
P24B
CustomerID, PIN
getProfile (MachineID, CustomerID)
(released = no)
responds:
CustomerID, released = yes or no,
release status
opens compartment door
(CustomerID valid and PIN OK
and released = yes)
parcelPickedUp (MachineID, time of day,
ParcelID, CustomerID, mode = 1)
(CustomerID valid and PIN OK and released = yes)
deletes all customer-related and parcel-related data
(parcel has been removed)
displays error message
(CustomerID invalid or
released = no or PIN not OK)

Fig. 10

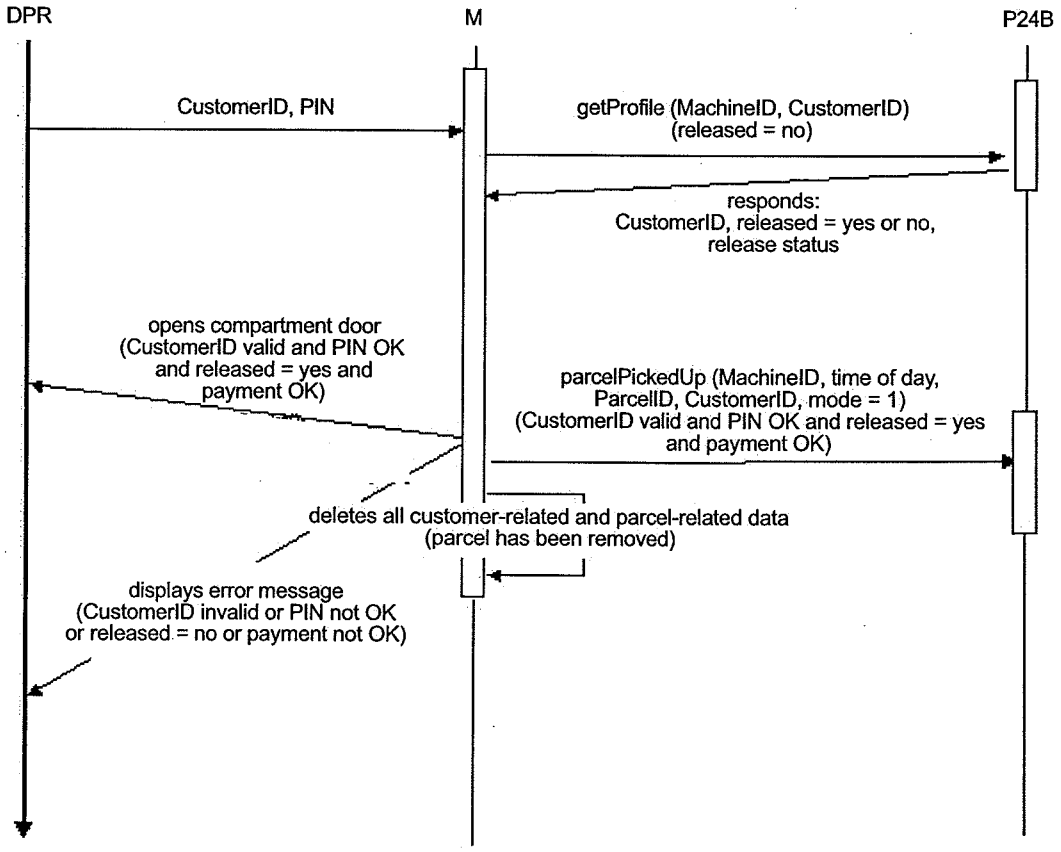

DPR
M
P24B
CustomerID, PIN
getProfile (MachineID, CustomerID)
(released = no)
responds:
CustomerID, released = yes or no,
release status
opens compartment door
(CustomerID valid and PIN OK
and released = yes and
payment OK)
parcelPickedUp (MachineID, time of day,
ParcelID, CustomerID, mode = 1)
(CustomerID valid and PIN OK and released = yes
and payment OK)
deletes all customer-related and parcel-related data
(parcel has been removed)
displays error message
(CustomerID invalid or PIN not OK
or released = no or payment not OK)

Fig. 11

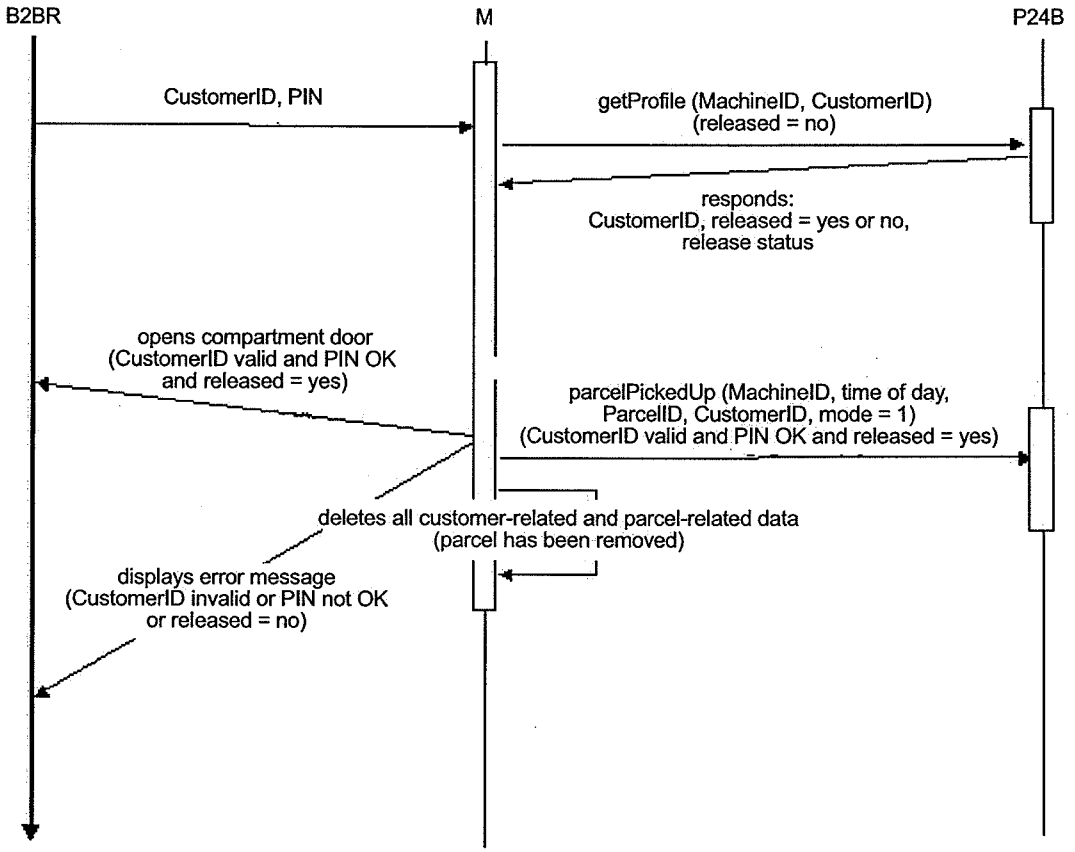

B2BR
M
P24B
CustomerID, PIN
getProfile (MachineID, CustomerID)
(released = no)
responds:
CustomerID, released = yes or no,
release status
opens compartment door
(CustomerID valid and PIN OK
and released = yes)
parcelPickedUp (MachineID, time of day,
ParcelID, CustomerID, mode = 1)
(CustomerID valid and PIN OK and released = yes)
deletes all customer-related and parcel-related data
(parcel has been removed)
displays error message
(CustomerID invalid or PIN not OK
or released = no)

Fig. 12

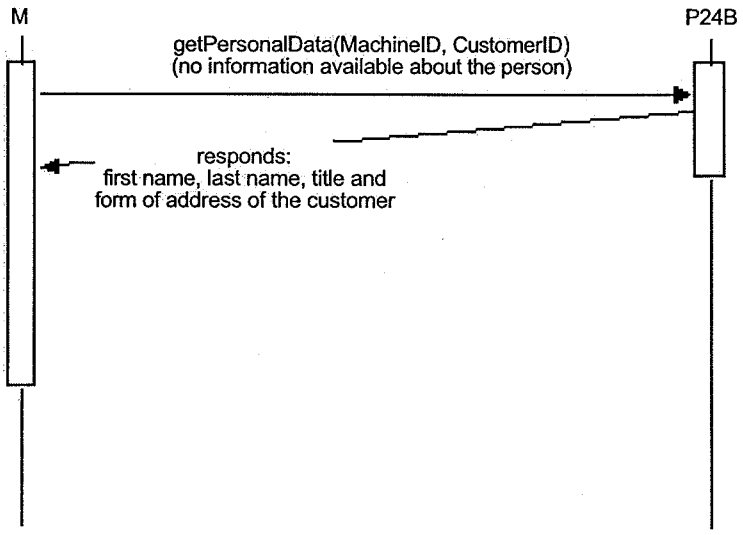

M
P24B
getPersonalData(MachineID, CustomerID)
(no information available about the person)
responds:
first name, last name, title and
form of address of the customer

Fig. 13

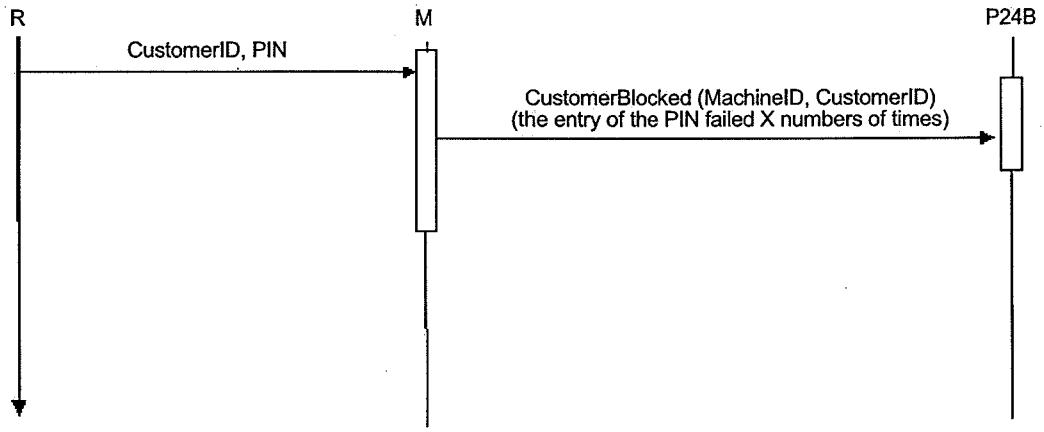

R
M
P24B
CustomerID, PIN
CustomerBlocked (MachineID, CustomerID)
(the entry of the PIN failed X numbers of times)

Fig. 14

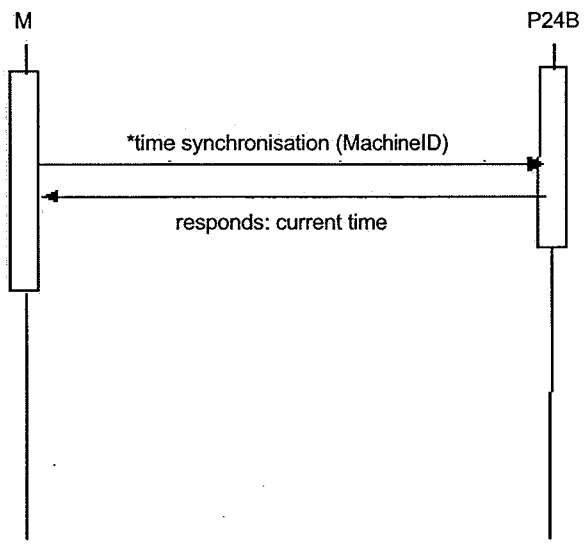

M
P24B
*time synchronisation (MachineID)
responds: current time

Fig. 15

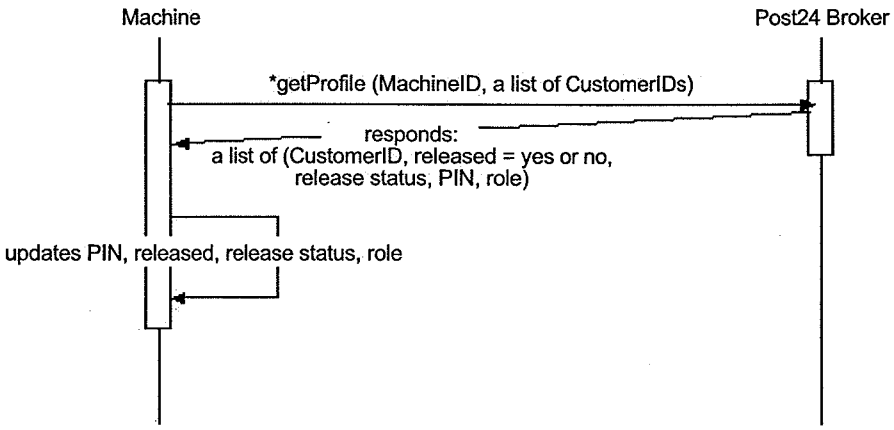

Machine
Post24 Broker
*getProfile (MachineID, a list of CustomerIDs)
responds:
a list of (CustomerID, released = yes or no,
release status, PIN, role)
updates PIN, released, release status, role

Fig. 16

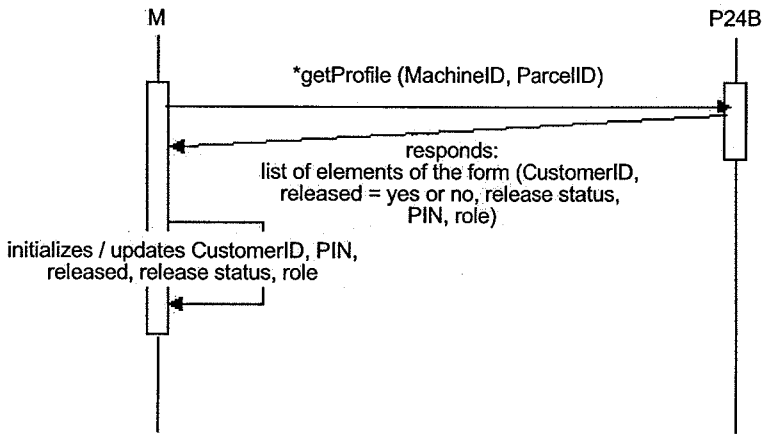

M
P24B
*getProfile (MachineID, ParcelID)
responds:
list of elements of the form (CustomerID,
released = yes or no, release status,
PIN, role)
initializes / updates CustomerID, PIN,
released, release status, role

Fig. 17

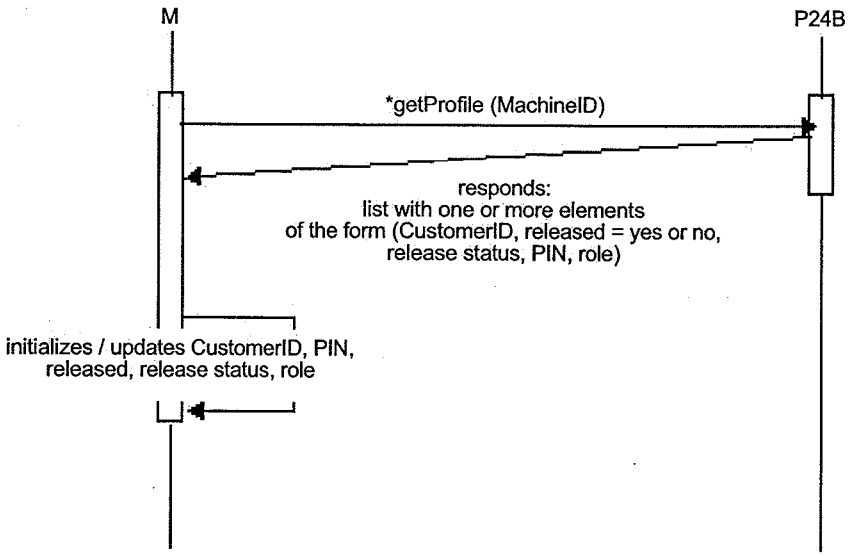

M
P24B
*getProfile (MachineID)
responds:
list with one or more elements
of the form (CustomerID, released = yes or no,
release status, PIN, role)
initializes / updates CustomerID, PIN,
released, release status, role

Fig. 18

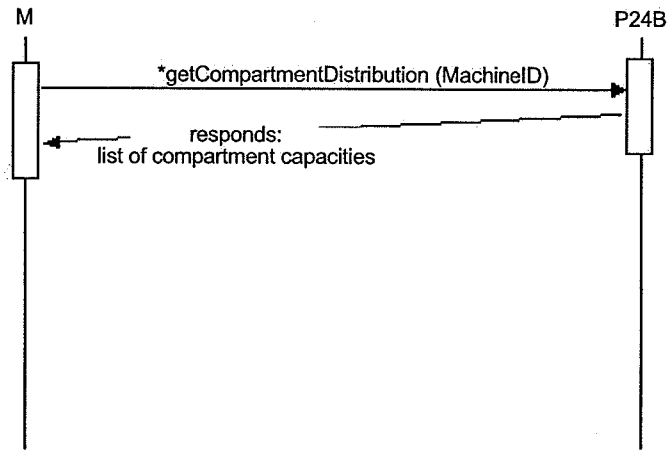

M
P24B
*getCompartmentDistribution (MachineID)
responds:
list of compartment capacities

Fig. 19

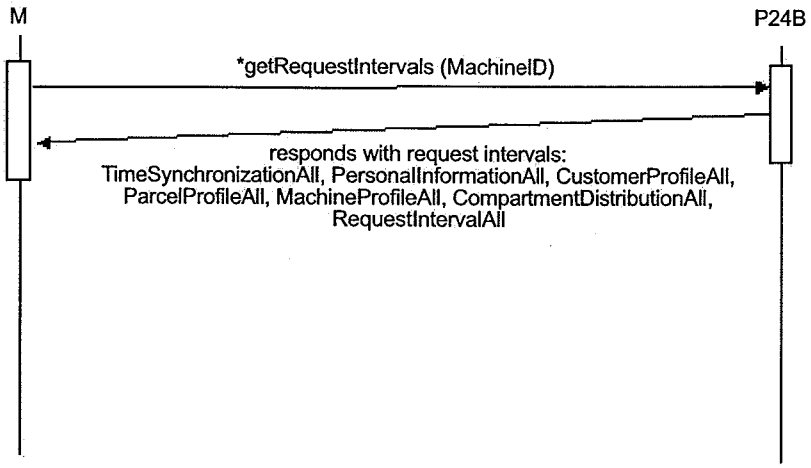

M
P24B
*getRequestIntervals (MachineID)
responds with request intervals:
TimeSynchronizationAll, PersonalInformationAll, CustomerProfileAll,
ParcelProfileAll, MachineProfileAll, CompartmentDistributionAll,
RequestIntervalAll

Fig. 20