

-2-

Caducle TravelStep n' LodgingStay import a serie de proprietati
pe care le grupam in cadrul mai general TripPort

(TripPort

<: BeginDate Date >

<: EndDate Date >

<: Cost Price >

<: PaymentMethod FormOfPayment >

...)

(LodgingStay

<: IS-A TripPort >

<: Place City >

<: LodgingPlace LodgingPlace >

<: ArrivingTravelStep TravelStep >

<: DepartingTravelStep TravelStep >

...)

(TravelStep

<: IS-A TripPort >

<: Origin City >

<: Destination City >

<: OriginLodgingStay LodgingStay >

<: DestinationLodgingStay LodgingStay >

<: Means FormOfTransportation >

<: DepartureTime Time >

<: ArrivalTime Time >

<: NextStep TravelStep >

<: PreviousStep TravelStep >

...)

Filler-e implicite

(TravelStep

<: Means airplane > ...)

(TripPort

<: PaymentMethod visaCard > ...)

(TravelStep

<: PaymentMethod masterCard > ...)

Notatii: - dacă x este un codru individual și y este o referință către un slot, xy este filler-ul celui slot din cadrul.
 - SELF - referința către cadrul curent procesat.

Filler-ul slot-ului: Origin din TravelStep poate fi atribuit/calculat astfel:

```
(TravelStep
  <: Origin [IF-NEEDED
    { if no SELF: PreviousStep then stop;
      else SELF: PreviousStep: Destination;
    }
  ] > ...)
```

```
(Trip
  <: TotalCost [IF-NEEDED
    { result ← 0
      x ← SELF: FirstStep;
      repeat
        if exists x: NextStep then
          { result ← result + x: Cost
            if exists x: DestinationLodgingStay then
              { result ← result + x: DestinationLodgingStay: Cost;
                x ← x: NextStep;
              }
            else return result + x: Cost;
          }
        }
      ] > ...)
```

```
(TravelStep
  <: NextStep [IF-ADDED
    { if SELF: EndDate ≠ SELF: NextStep: BeginDate then
      { SELF: DestinationLodgingStay ←
        SELF: NextStep: OriginLodgingStay ←
        new LodgingStay
          with : BeginDate = SELF: EndDate;
          with : EndDate = SELF: NextStep: BeginDate;
          with : ArrivingTravelStep = SELF;
          with : DepartingTravelStep = SELF: NextStep;
        }
      }
    ] > ...)
```

(Lodging Stay

<:Place [IF-NEEDED

{SELF:ArrivingTravelStep:Destinationonly

]>...)

Pentru o calatorie enume (trip23) cream un codru individual

(trip23

<:INSTANCE-OF Trip>

<:FirstStep travelStep23a>)

si un codru (travelStep23a

<:INSTANCE-OF TravelStep>

<:Destination dortmund>

<:BeginDate 23/11/18>

<:EndDate 23/11/18>)

cream un al doilea codru (travelStep23b

<:INSTANCE-OF TravelStep>

<:Destination otopeni>

<:BeginDate 25/11/18>

<:EndDate 25/11/18>

<:PreviousStep travelStep23a>)

trip23

[FirstStep]

travelStep23a

: BeginDate	23/11/18
: EndDate	23/11/18
: Means	
: Origin	
: Destination	dortmund
: NextStep	
: PreviousStep	
: Cost	
: OriginLodgingStay	
: DestinationLodgingStay	

travelStep23b

: BeginDate	25/11/18
: EndDate	25/11/18
: Means	
: Origin	
: Destination	otopeni
: NextStep	
: PreviousStep	travelStep23a
: Cost	
: OriginLodgingStay	
: DestinationLodgingStay	



Pentru a inchea initializarea tubuie ca travelStep18a : NextStep ← travelStep18b

(TravelStep

< PreviousStep [IF-ADDED

{ SELF: PreviousStep : NextStep ← SELF; y

] > ...)

Prin aceasta tubuie se execută procedura IF-ADDED otareta slot-ul : NextStep

(LodgingStay23a

< : INSTANCE - OF LodgingStay >

< : BeginDate 23/11/18 >

< : EndDate 25/11/18 >

< : ArrivingTravelStep travelStep23a >

< : DepartingTravelStep travelStep23b >)

dacă este cent,
slot-ul : Place ve
even filler-ul
dormund prin
procedura otareta
IF-NEEDED.



