Interaction Protocols

Relation(Air	line/Transport Supervisor)	Relation(Supervisor RRHH/Airline)	
lame of protocol:	Report Vehicles	Name of protocol	Report indicators of RRHH and schedules
niciator:	Transport Supervisor	Iniciator:	Supervisor RRHH
Reptor:	Airline	Reptor:	Airline
puts:	Wellness Function Objective	Inputs:	Agent's Schedule and Fuction objetive of customer service agents
Outputs	,	Outputs	Print out agent's schedules and fuction objetive
Description:	The Transport Supervisor sends the information and the basic indicators of the	Description:	Once the HR Supervisor agent obtains the best agent schedule solution
Relation(Tra	ansport Supervisor/Custumer Service Agent)	Relation(Tra	ansport Supervisor/Airline)
ame of protocol	Report leader selection	Name of protocol	Solicit vehicles
niciator:	Transport supervisor	Iniciator:	Airline
Reptor:	Customer service agent	Reptor:	Transport supervisor
	Leader	Inputs:	Agent's Schedules
nputs:	List of agents which ones the leader must to negotiate	Outputs	Agents scriedules Agents routes with needs of transport
Outputs Description:	The Transportation Supervisor reports to the leader (departure and return trip)	Description:	The Airline agent requests the Transportation Supervisor to generate the
escription:		Description:	
	that he is the leader in certain strips with the list of agents with whom he must		routes of those customer service agents that must be transported
Relation(Supervisor RRHH/Customer Service Agent)		Relation(Customer Service Agent/ Transport Supervisor)	
ame of protocol:	Request combinatorial with shcedules	Name of protocol:	Report vehicle
niciator:	RRHH Supervisor	Iniciator:	Customer service agent
Reptor:	Customer service agent	Reptor:	Transport supervisor
nputs:	Combitary number for the genetic algorithm	Inputs:	Clusters
Outputs	Agent's weekly schedule	Outputs	List of agents and order in which the vehicle route will be made in the s
	The HR Supervising Agent sends a decimal number indicating the combinatorial		The Customer Service Agents (leaders) report to the Transportation
escription:	number that the Customer Service Agent must search to generate its weekly	Description:	Supervisor the vehicles made in the strip for their evaluation.
	number that the oustomer dervice Agent must search to generate its weekly		Oupervisor the vertices made in the strip for their evaluation.
Relation(Cเ	ustomer Service Agent/ Customer Service Agent)	Relation(Su	pervisor RRHH/Customer Service Agent)
Name of protocol:	Send vehicle invitations	Name of protocol:	Report weekly shedules
niciator:	Customer Service Agent	Iniciator:	Customer Service Agent
Reptor:	Customer Service Agent	Reptor:	RRHH Supervisor
nputs:	3. ·	Inputs:	
Outputs	Invitation	Outputs	Agent's weekly schedule
	The leader sends invitations to the other customer service agents asking		The Customer Service Agent based on its internal rules and the
Description:	possible candidates to be able to conform the vehicle (Arrival trip/ Departure trip)	Description:	combination number to generate the weekly schedule that the agent me
	possible dandidates to be able to definiting the vehicle (vinival tip) beparture tip)		combination number to generate the weekly solicedic that the agent his
Relation(Customer Service Agent/ Customer Service Agent)			ustomer Service Agent/ Customer Service Agent)
lame of protocol:	Send Request change of Activity	Name of protocol:	Accept invitation - Dimiss invitation
niciator:	Customer Service Agent	Iniciator:	Customer Service Agent
leptor:	Customer Service Agent	Reptor:	Customer Service Agent
nputs:	The activity in the strip must change	Inputs:	Invitation containing check-in time
Outputs	Invitation	Outputs	Invitation status
Description:	Given a change in demand peaks or due to problems sent by other agents in the		The agent's internal rules (liveness and safety restrictions) decide if it is
escription.	time slot to change, agents may request changes in their activities in order to	Description.	feasible or not feasible to belong to the vehicle
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	stomer Service Agent/ Customer Service Agent)		
ame of protocol:	Accept Change		
niciator:	Customer Service Agent		
teptor:	Customer Service Agent		
nputs:	Ĭ		
utputs	Invitation status		
	The change to be made is evaluated to be beneficial to the airline, as long as the	_	
escription:			
escription:	agent's internal restrictions are not violated.		