## Protocols of Interaction

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Relation(Air	line/Transport Supervisor)	Relation(Cu	stomer Service Supervisor/Airline)
Name of protocol:	Report Vehicles	Name of protocol	Report indicators of RRHH and schedules
Iniciator:	Transport Supervisor	Iniciator:	Customer service supervisor
Receptor:	Airline	Receptor:	Airline
Inputs:	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(Transport Supervisor/Customer Service Agent)		Relation(Transport Supervisor/Airline)	
Name of protocol	Report leader selection	Name of protocol	Solicit vehicles
Iniciator:	Transport supervisor	Iniciator:	Airline
Receptor:	Customer service agent	Receptor:	Transport supervisor
Inputs:	Leader	Inputs:	Agent's Schedules
Outputs	List of agents which ones the leader must to negotiate	Outputs	Agents routes with needs of transport
	The Transportation Supervisor reports to the leader (departure and return trip)	Description:	The Airline agent requests the Transportation Supervisor to generate the
Description:	that he is the leader in certain strips with the list of agents with whom he must	Description:	routes of those customer service agents that must be transported
	that he is the leader in certain strips with the list of agents with whom he must		Todies of those customer service agents that must be transported
Relation(Customer service supervisor/Customer Service Agent)		Relation(Customer Service Agent/ Transport Supervisor)	
Name of protocol:	Request combinatorial with shcedules	Name of protocol:	Report vehicle
Iniciator:	Customer service supervisor	Iniciator:	Customer service agent
Receptor:	Customer service agent	Receptor:	Transport supervisor
Inputs:	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 strip
Outputs	The HR Supervising Agent sends a decimal number indicating the combinatorial	Outputs	The Customer Service Agents (leaders) report to the Transportation
December 1		December 1	
Description:	number that the Customer Service Agent must search to generate its weekly	Description:	Supervisor the vehicles made in the strip for their evaluation.
Relation( Customer Service Agent/ Customer Service Agent)  Relation(Customer Service Supervisor/Customer Service Agent)			
,	Send vehicle invitations		Report weekly shedules
Iniciator:	Customer Service Agent	Iniciator:	Customer Service Agent
Receptor:	•	Receptor:	
•	Customer Service Agent	•	Customer Service Supervisor
Inputs:		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 must
Relation( Customer Service Agent/ Customer Service Agent)  Relation( Customer Service Agent/ Customer Service Agent)			
	Send Request change of Activity		
			Accept invitation - Dimiss invitation
Iniciator:	Customer Service Agent	Iniciator:	Customer Service Agent
Receptor:	Customer Service Agent	Receptor:	Customer Service Agent
Inputs:	The activity in the strip must change	Inputs:	Invitation containing check-in time
Outputs	Invitation	Outputs	Invitation status
	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
Description:	time slot to change, agents may request changes in their activities in order to	Description:	feasible or not feasible to belong to the vehicle
Relation( Customer Service Agent/ Customer Service Agent)			
	<u> </u>	-	
	Accept Change		
Iniciator:	Customer Service Agent		
Receptor:	Customer Service Agent		
Inputs:	<b>J</b>		
Outputs	Invitation status		
	The change to be made is evaluated to be beneficial to the airline, as long as the		
Description:	agent's internal restrictions are not violated.		
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