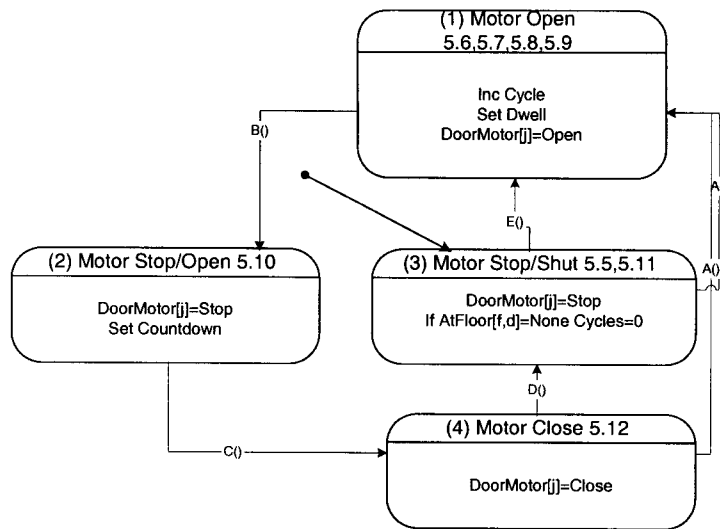
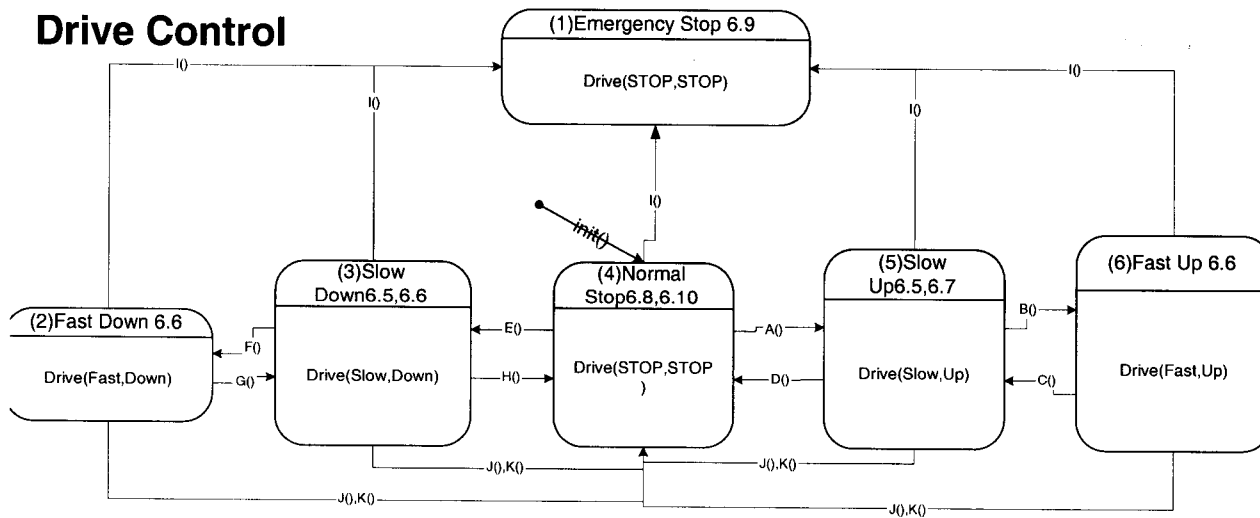


Door Control



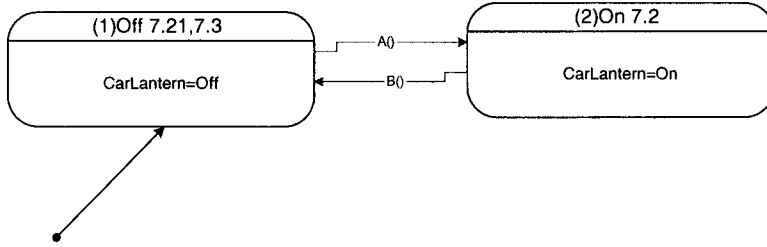
Transition	Requirement	Transition Conditions	Test Plan Reference
A	5.6	DoorReversal[q]=True	
B	5.1	DoorOpen[j]=True	
C	5.12	Countdown=0	
D	5.11	DoorClosed[j]=True	
E	5.7	CurrentFloor=DesiredFloor and Drive=Stop and Cycles=0	
	5.9	CurrentFloor=DesiredFloor and Drive=Stop and CarCall[currentFloor]=True	
	5.8	CurrentFloor=DesiredFloor and Drive=Stop and HallCall[currentFloor,DesiredFloor.d]=True	
		CurrentFloor=DesiredFloor and Drive=Stop and HallCall[currentFloor.*1 and DesiredFloor.d=Stop	

Drive Control



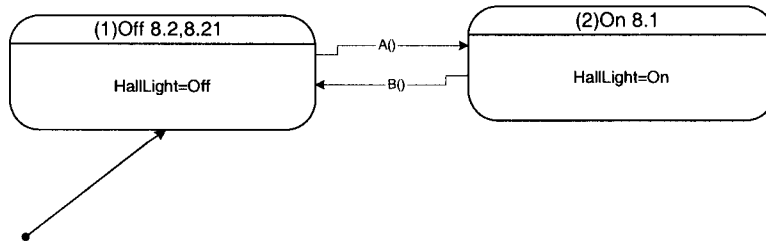
Transition	Requirement	Transition Conditions	Test Plan Reference
		DesiredDirection=UP,	
A	6.5	DriveSpeed=Stop GoUp, DoorClosed(ALL)=true	
B	6.6	Speed=Slow, !atfloor[DesiredFloor,UP STOP]	
C	6.7	atfloor.f=DesiredFloor, atfloor.d=Up	
		DesiredDirection=down	
D	6.8	AtFloor.f=DesiredFloor, AtFloor.d=Stop	
		DesiredDirection=Down	
E-H		As above, replace Down with Up	
I	6.9	EmergencyBrake=True	
J	6.2	DoorMotor=Open	
K	6.1, 6.10	DoorClosed=False	
		HoistwayLimit[any]=true	

LanternControl



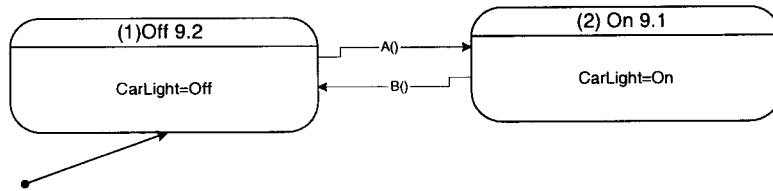
Transition	Requirement	Transition Conditions	Test Plan Reference
A	7.2, 7.21	DoorClosed[j]=False and DesiredFloor.d=MyDirection	
B	7.3	DoorClosed[j]=True	

HallButtonControl



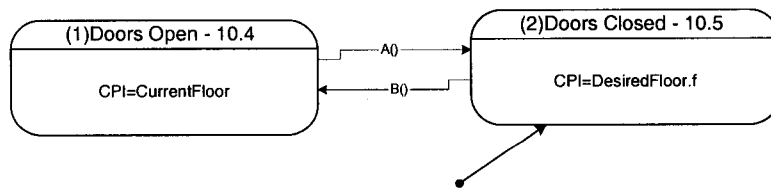
Transition	Requirement	Transition Conditions	Test Plan Reference
A	8.1, 8.21	HallCall[myFloor,myDirection]=True	
B	8.2	DesiredFloor=[Myfloor,MyDirection] Stop]	

CarButtonControl



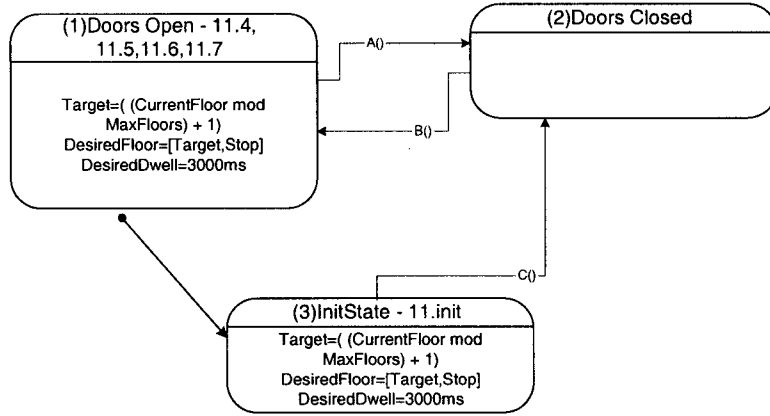
Transition	Requirement	Transition Conditions	Test Plan Reference
A	9.1	CarCall[myFloor]=True	
B	9.2	DesiredFloor.f=MyFloor	

CarPositionControl(10)



Transition	Requirement	Transition Conditions	Test Plan Reference
A	10.5	DoorClosed=True	
B	10.4	DoorClosed=False	

Dispatcher (11)



Transition	Requirement	Transition Conditions	Test Plan Reference
A	11.6 - by implication	DoorClosed=True	
B	11.6	DoorClosed=False	
C	11.init	AtFloor[f,d]=None	

Forward Trace Matrix

Behavior	Reference to Design Document	Reference to Test Document
5.5	S5.3	
5.6	S5.1,T5A	
5.7	S5.1,T5E	
5.8	S5.1,T5E	
5.9	S5.1,T5E	
5.10	S5.2,T5B	
5.11	S5.3,T5D	
5.12	S5.4,T5C	
5.INIT	S5.3	
6.5	S6.3,S6.5,T6A,T6E	
6.6	S6.6,S6.2,T6B,T6F	
6.7	S6.3,S6.3,T6C,T6G	
6.8	S6.4,T6D,T6H	
6.9	S6.1,T6I	
6.10	S6.4,T6K	
6.INIT	S6.4	
7.2	S7.2,S7A	
7.21	S7.1,T7A	
7.3	S7.1,T7B	
7.INIT	S7.1	
8.1	S8.2, T8A	
8.2	S8.1, T8B	
8.21	S8.1, T8A	
8.INIT	S8.1	
9.1	S9.2, T9A	
9.2	S9.1, T9B	
9.INIT	S9.2	
10.4	S10.1,T10B	
10.5	S10.2,T10A	
10.INIT	S10.2	
11.4	S11.1	
11.5	S11.1	
11.6	S11.2,T11A,T11B	
11.7	S11.1	
11.INIT	S11.3,T11C	

Reverse Arc Trace Matrices

Transition	Requirement	Transition Conditions	Test Plan Reference
A	5.6	DoorReversal[q]=True	
B	5.1	DoorOpen[j]=True	
C	5.12	Countdown=0	
D	5.11	DoorClosed[j]=True	
E	5.7	CurrentFloor=DesiredFloor and Drive=Stop and Cycles=0	
	5.9	CurrentFloor=DesiredFloor and Drive=Stop and CarCall[currentFloor]=True	
	5.8	CurrentFloor=DesiredFloor and Drive=Stop and HallCall[currentFloor,DesiredFloor.d]=True	
		CurrentFloor=DesiredFloor and Drive=Stop and HallCall[currentFloor,*] and DesiredFloor.d=Stop	

Transition	Requirement	Transition Conditions	Test Plan Reference
A	6.5	DesiredDirection=UP, DriveSpeed=Stop GoUp	
B	6.6	Speed=Slow, !atfloor[DesiredFloor,UP STOP]	
C	6.7	atfloor.f=DesiredFloor, atfloor.d=Up	
		DesiredDirection=down	
D	6.8	AtFloor.f=DesiredFloor, AtFloor.d=Stop	
		DesiredDirection=Down	
E-H	As above, replace Down with Up		
I	6.9		
J	6.2	DoorMotor=Open	
K	6.1,6.10	DoorClosed=False	
		HoistwayLimit[any]=true	

Transition	Requirement	Transition Conditions	Test Plan Reference
A	7.2,7.21	DoorClosed[j]=False and DesiredFloor.d=MyDirection	
B	7.3	DoorClosed[j]=True	

Transition	Requirement	Transition Conditions	Test Plan Reference
A	8.1,8.21	HallCall[myFloor,myDirection]=True	
B	8.2	DesiredFloor=[Myfloor,MyDirection Stop]	

Transition	Requirement	Transition Conditions	Test Plan Reference
A	9.1	CarCall[myFloor]=True	
B	9.2	DesiredFloor.f=MyFloor	

Transition	Requirement	Transition Conditions	Test Plan Reference
A	10.5	DoorClosed=True	
B	10.4	DoorClosed=False	

Transition	Requirement	Transition Conditions	Test Plan Reference
A	11.6 - by implication	DoorClosed=True	
B	11.6	DoorClosed=False	
C	11.init	AtFloor[f,d]=None	