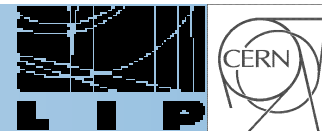


CMS Calorimeter Trigger Read-out and Control Project Overview



Project Overview

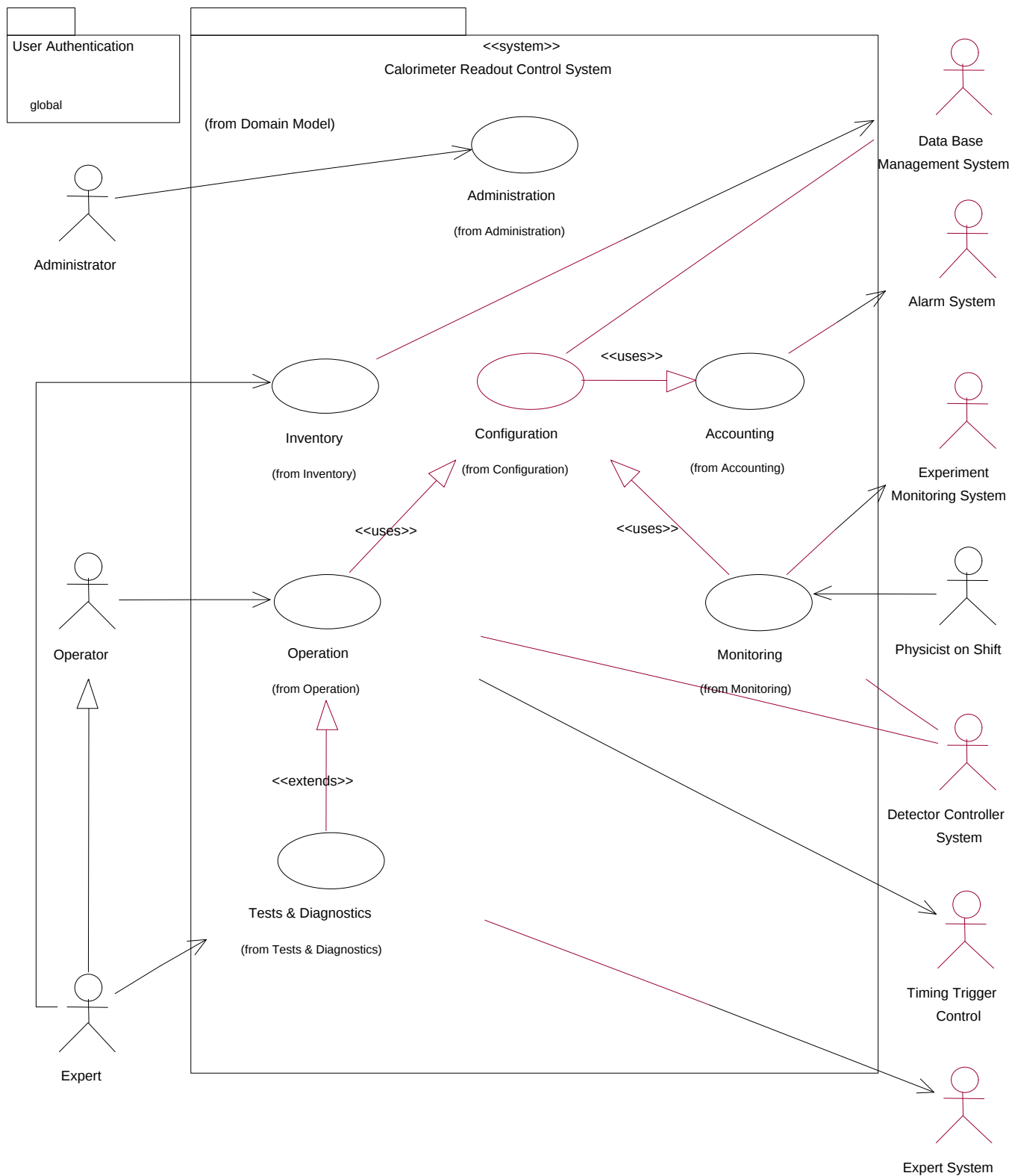
Architecture Overview

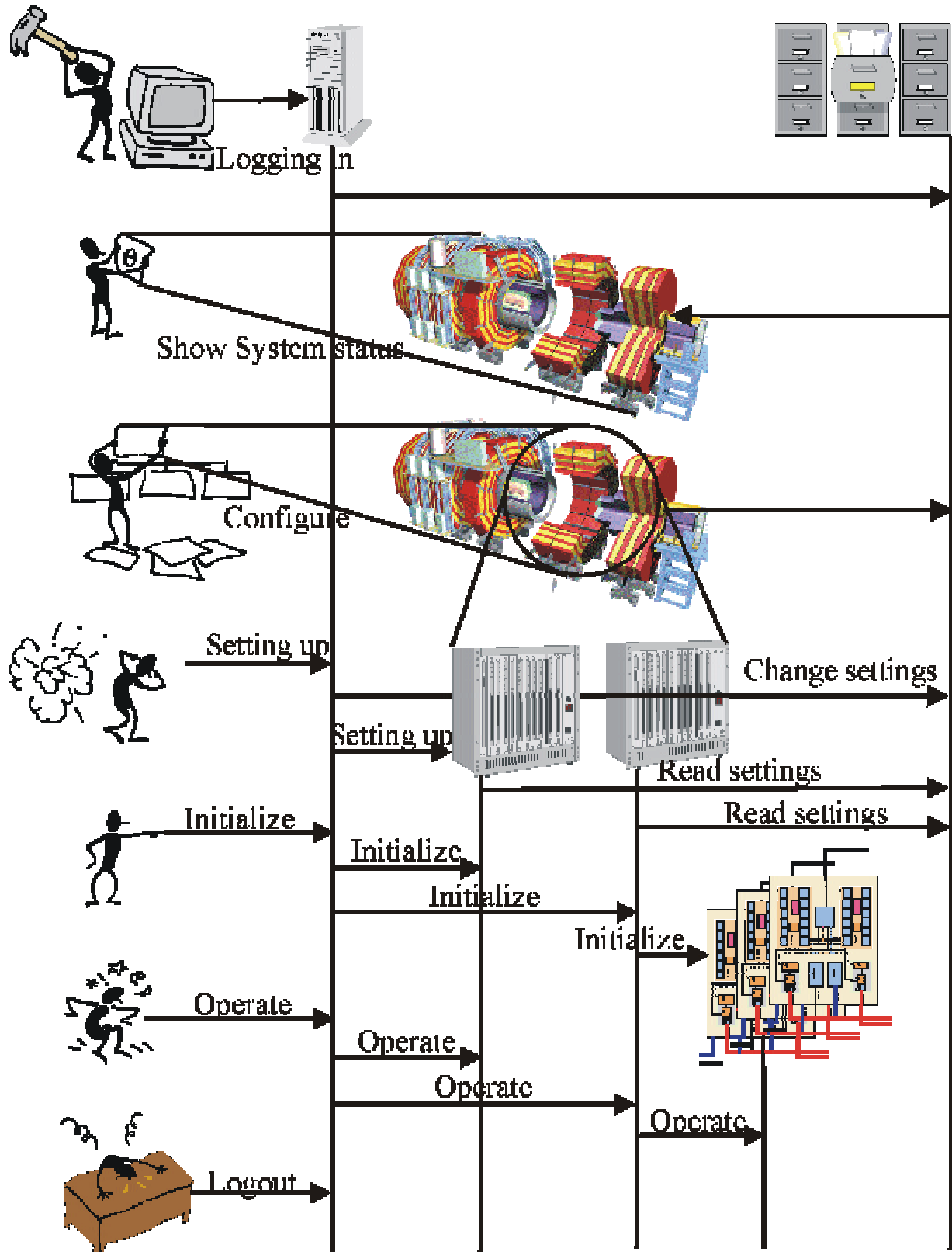
Prototype Description

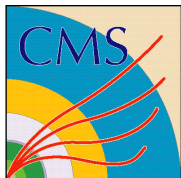
Ecal FE model



Use Cases



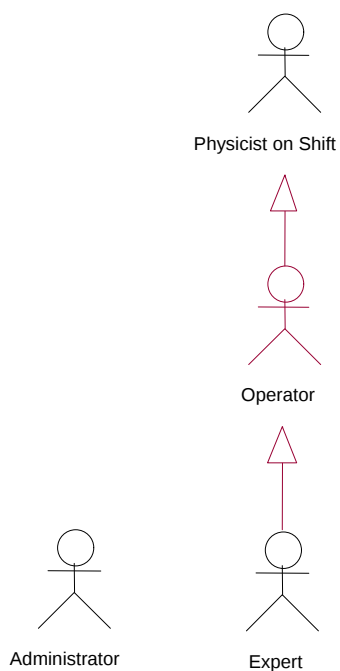




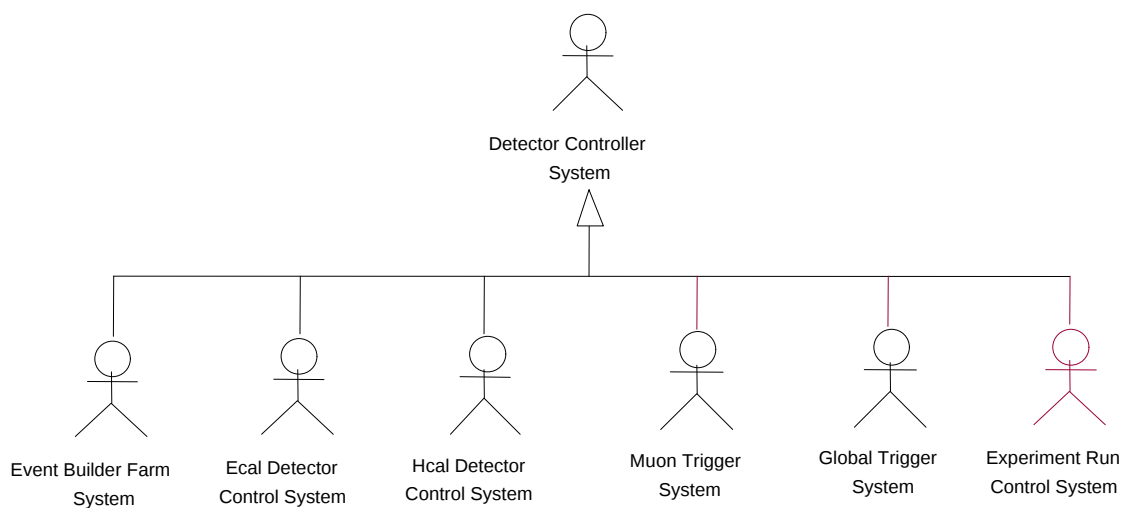
Actors



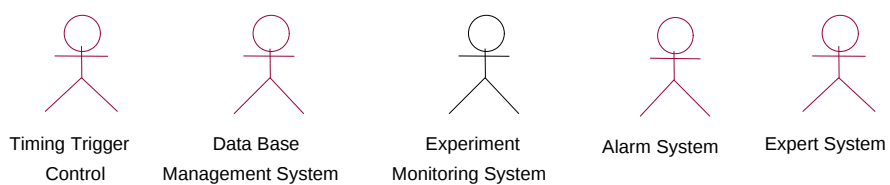
Calorimeter Read-out Control System users



Calorimeter Read-out Control System ancillary service providers



Calorimeter Read-out Control System global service providers





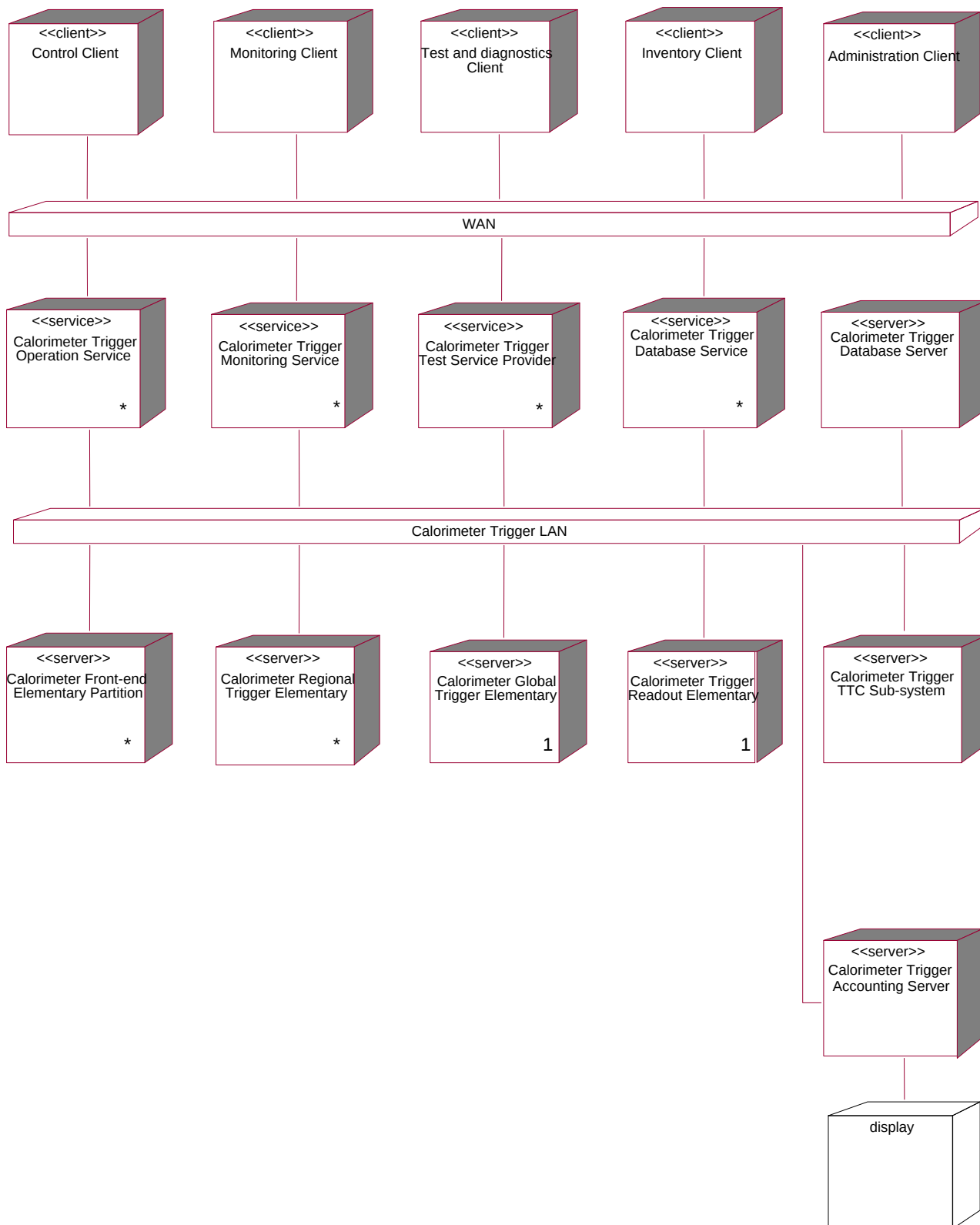
Events



Category	Id	Event	Description	Event Input Data	Direction	Detection Mechanism (Arrival Pattern)
User Authentication		Login				
Administration		Add New Group				
		Modify Existing Group				
		Remove Group				
		Add New User				
		Modify Existing User				
		Remove User				
Inventory		Add New Device				
		Modify Existing Device				
		Remove Device				
		Add New Component				
		Modify Existing Component				
		Remove Component				
Configuration		Book		Elementary Partition.Elementary Partition Id		Episodic
		Configure		Elementary Partition.Elementary Partition Id	System	Episodic
		Release		N/A		Episodic
		Change Settings		Elementary Partition.Elementary Partition Id	System	Episodic
		Change VFE Operation		Device.Device Id		Episodic
		Change VFE Thresholds		Device.Device Id		Episodic
		Change Pedestals		Device.Device Id		Episodic
Operation Control		Initiate		N/A	System	Episodic
		Start		N/A	System	Episodic
		Trigger		Trigger Type	System	Episodic
		Clear		N/A	System	Episodic
		Reset		N/A	System	Episodic
		Stop		N/A	System	Episodic
		Resynchronize		N/A	System	Episodic
Tests & Diagnostics						
Accounting		Report system activity				Periodic
		Log system activity				Periodic
		Info Report		Info Type	Partition	Periodic
		Info Request		Info Type	Operator	Episodic
		Malfunction				Episodic
Monitoring		Pedestal Report		N/A	Detector Control System	Periodic
		Pedestal Request		N/A	Operator	Episodic
		Temperature Report		N/A	Detector Control System	Periodic
		Temperature Request		N/A	Operator	Episodic
		Current Report		N/A	Detector Control System	Periodic
		Current Request		N/A	Operator	Episodic
		Event Report		N/A	Partition	Periodic
		Event Request		N/A	Operator	Episodic
		Histogram Request		N/A	Display	Episodic
		Display Event			Display	Episodic
GUI		User cursor movement				
		User screen command				

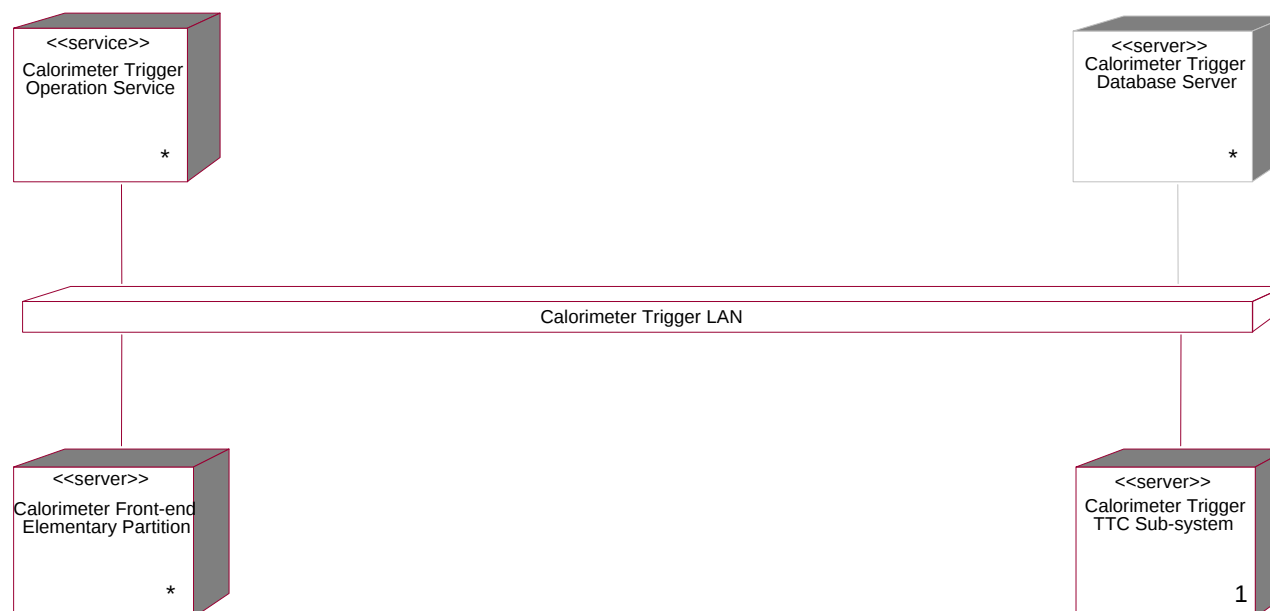


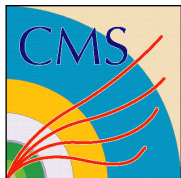
Architecture



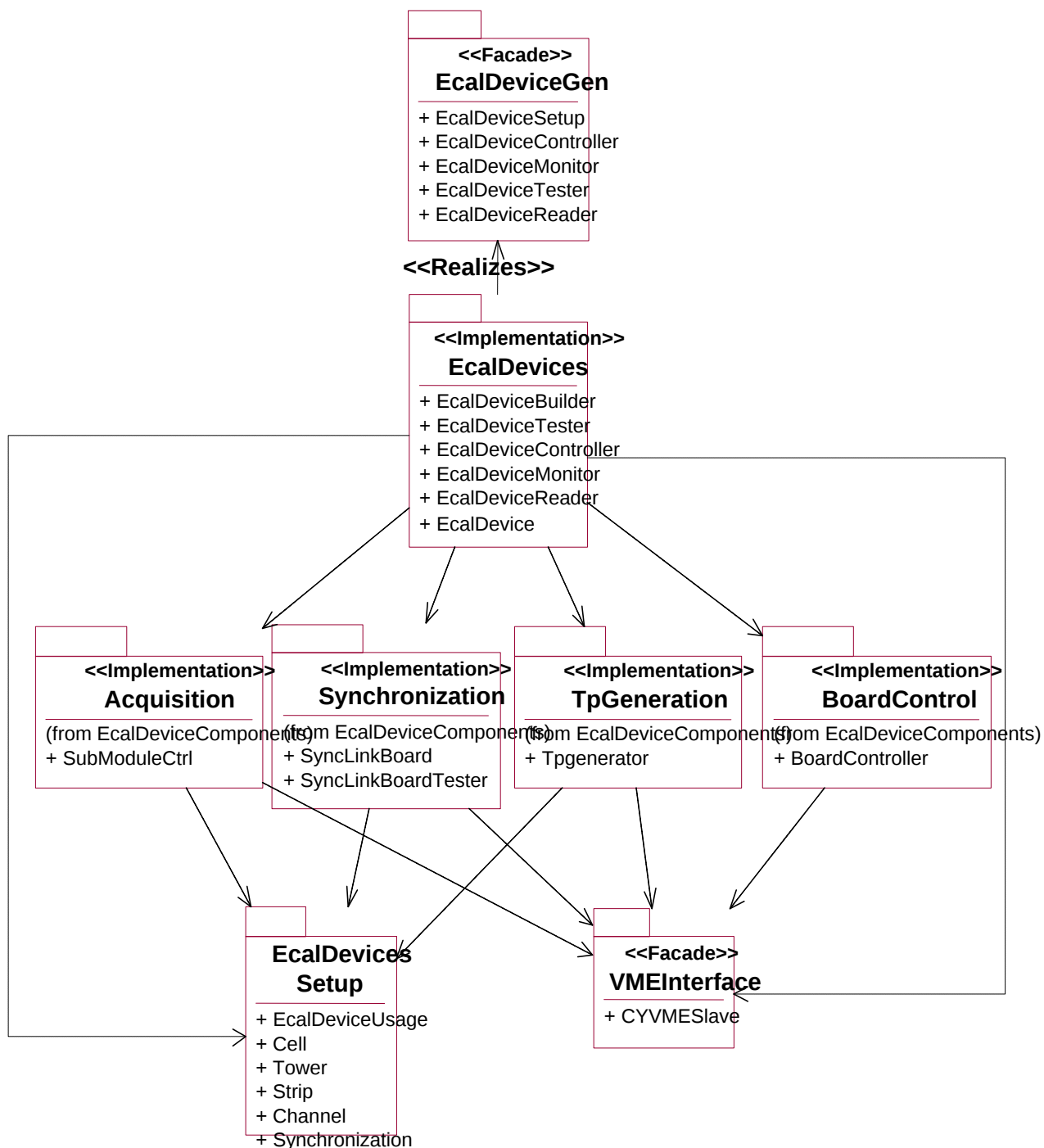


Prototype Architecture



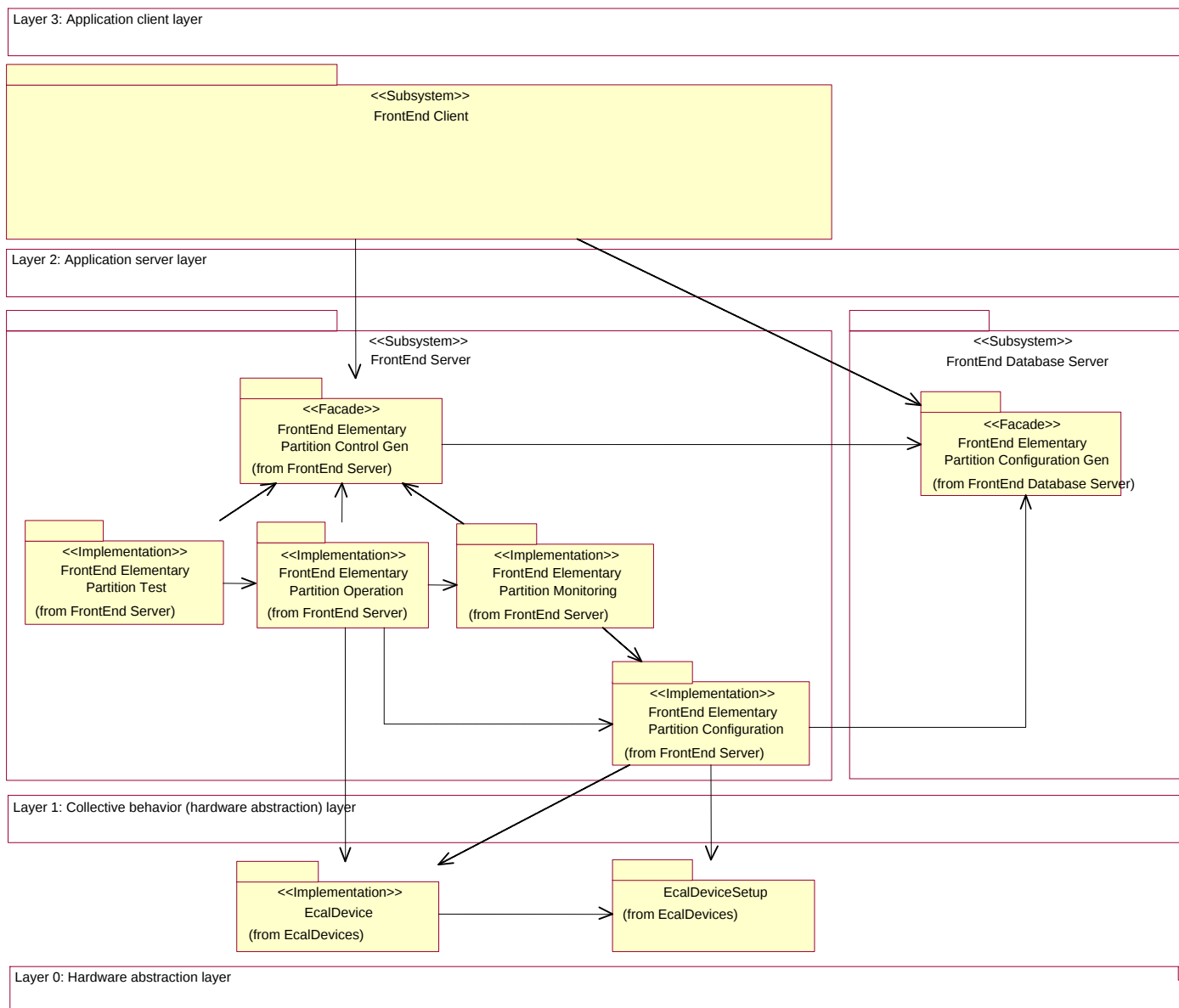


Ecal Device model



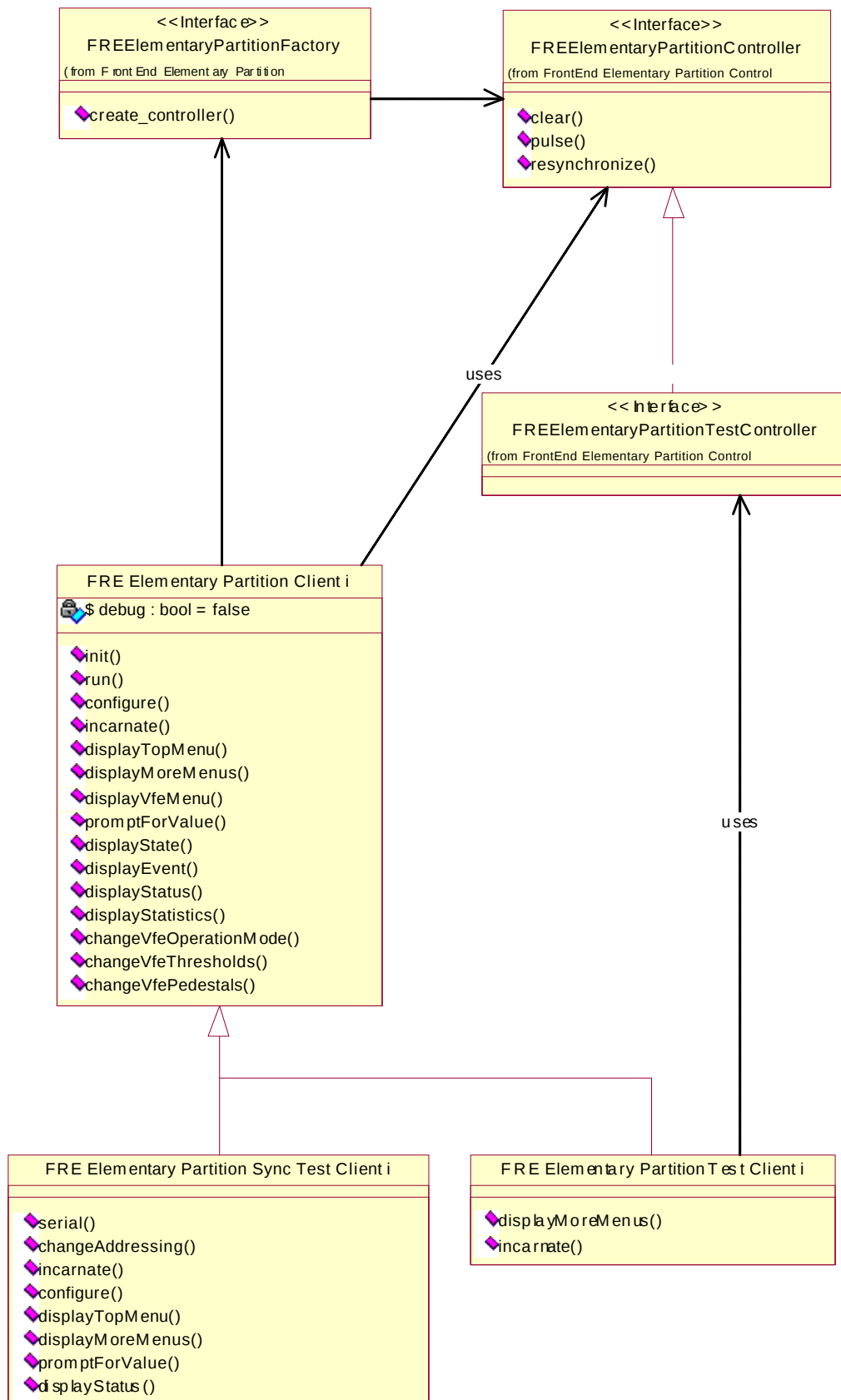
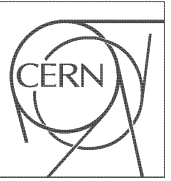


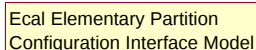
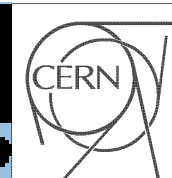
Front-end Sub-system (Packag'ng)





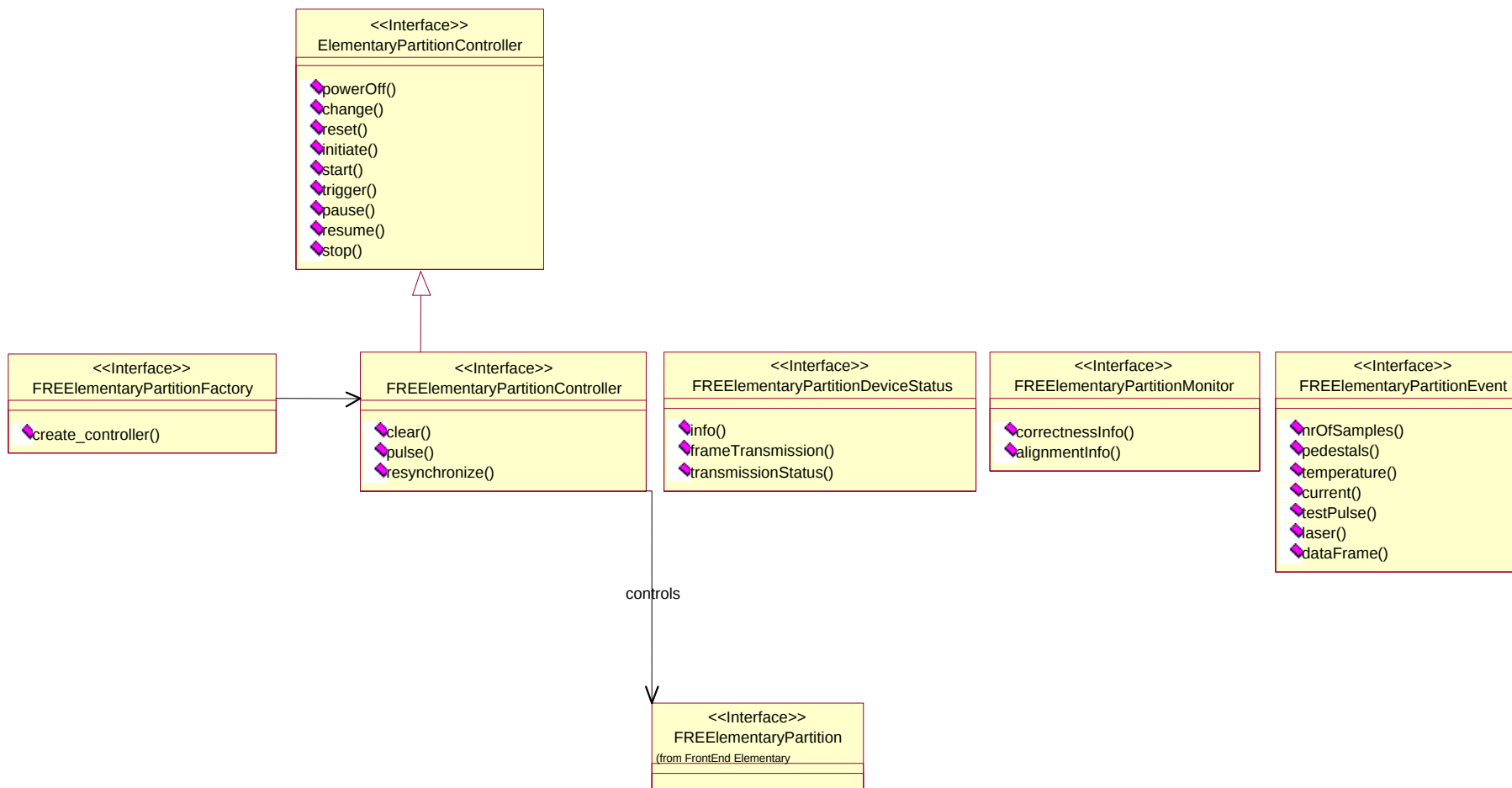
Interface client model





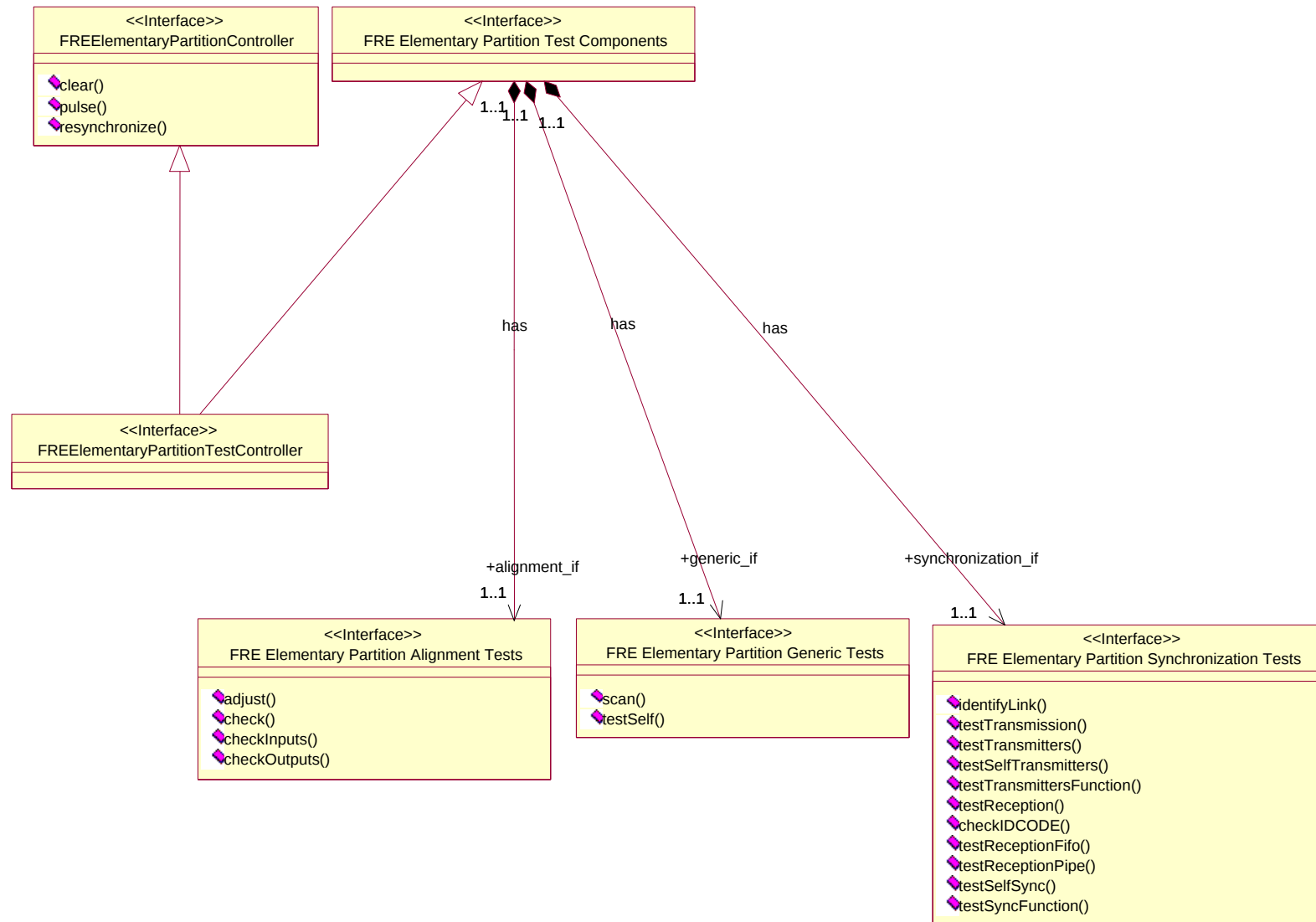
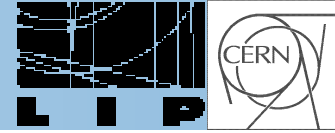


Interface operation cntl model





Interface test cntrl model





Operation model

