A ‘Cross Connect’ is a simple communications device which maps incoming communications channels/ports on one side to outgoing channels/ports on the other.

Consider an ATM Cross Connect with 8 ports on either side.
Problem

Suppose you are asked to design a ‘device manager’ for the CrossConnect equipment.

1. What is the information you need to manage in order to control & monitor the device (cross connect)?
2. Where will the management system run?
3. How will you get access to the necessary information in the cross connect?
4. What management functions do you consider ‘the most important’ to implement in the management system?