**Routing Engine Redundancy**

Hi ,

I have got few questions regarding Routing engine on Juniper? Below depicted configuration is my reference.

groups {

 re0 {

 system {

 host-name GOODLONDONA;

 backup-router 97.240.16.1;

 }

 interfaces {

 fxp0 {

 unit 0 {

 family inet {

 address 97.240.16.36/26;

 }

 }

 }

 }

 }

 re1 {

 system {

 host-name GOODLONDONB;

 backup-router 97.240.32.65;

 }

 interfaces {

 fxp0 {

 unit 0 {

 family inet {

 address 97.240.28.115/26;

 }

 }

1. What is backup router? Is this backup router a separate external physical Juniper router ?
2. Do routing engines share the management interface fxp0 , each having separate management IP address ?
3. If the management IP address changes when there is switching change in routing engine i.e. RE1 takes over RE0 takeover , how will communication happen with Network Management system since management IP address changes?
4. Do both the routing engine runs on common hardware in single router or Single router has got 2 hardware to run 2 routing engines?
5. How primary and secondary routing engine does communicate? Which entity in Juniper router senses failure and activates secondary ?