

# Multicast Source Sending Process with PIM-SM

## Building the RPT towards group members

**2.** The RP decapsulate's the PIM-Register and forwards the packet down the RPT tree (i.e. out the OIL list for this (\*,G) tree). It also adds fa0/0 to the IIL for the (\*,G).

R2 also sends a (S,G) PIM join out the RPF interface for 10.10.10.1, which in our case goes to R1 & adds fa0/0 to the IIL for the (S,G) tree.

**1.** R1(the DR) receives the multicast feed from PC1 and encapsulates it into PIM-Register messages. R1 forwards the register in a unicast towards the RP. R1 also creates the (S,G) distribution tree, adding fa0/0 to the Incoming Interface List (IIL) & fa0/1 to the Outgoing Interface List (OIL).

**4.** R2 sends a REGISTER-STOP to the DR (R1) so that he will stop sending him PIM registers (i.e. so R1 will only send the multicast stream).

This means the tree is rooted at the source & the SPT will be used when sending the feed from the source to the RP.

**3.** R1 now sends a unicast PIM register AND a multicast towards the RP

