

# An IP Multicast tale

5/12/00

[Click here to start](#)

## **Table of Contents**

Author: jan

[Investigated Topology](#)

[Source Sends Data](#)

[Receivers Join](#)

[Sender Stops Send Data - Ideal](#)

[Sender Re-starts Send Data - Ideal](#)

[Sender Stops Send Data - Real](#)

[Sender Re-starts Send Data - Real](#)

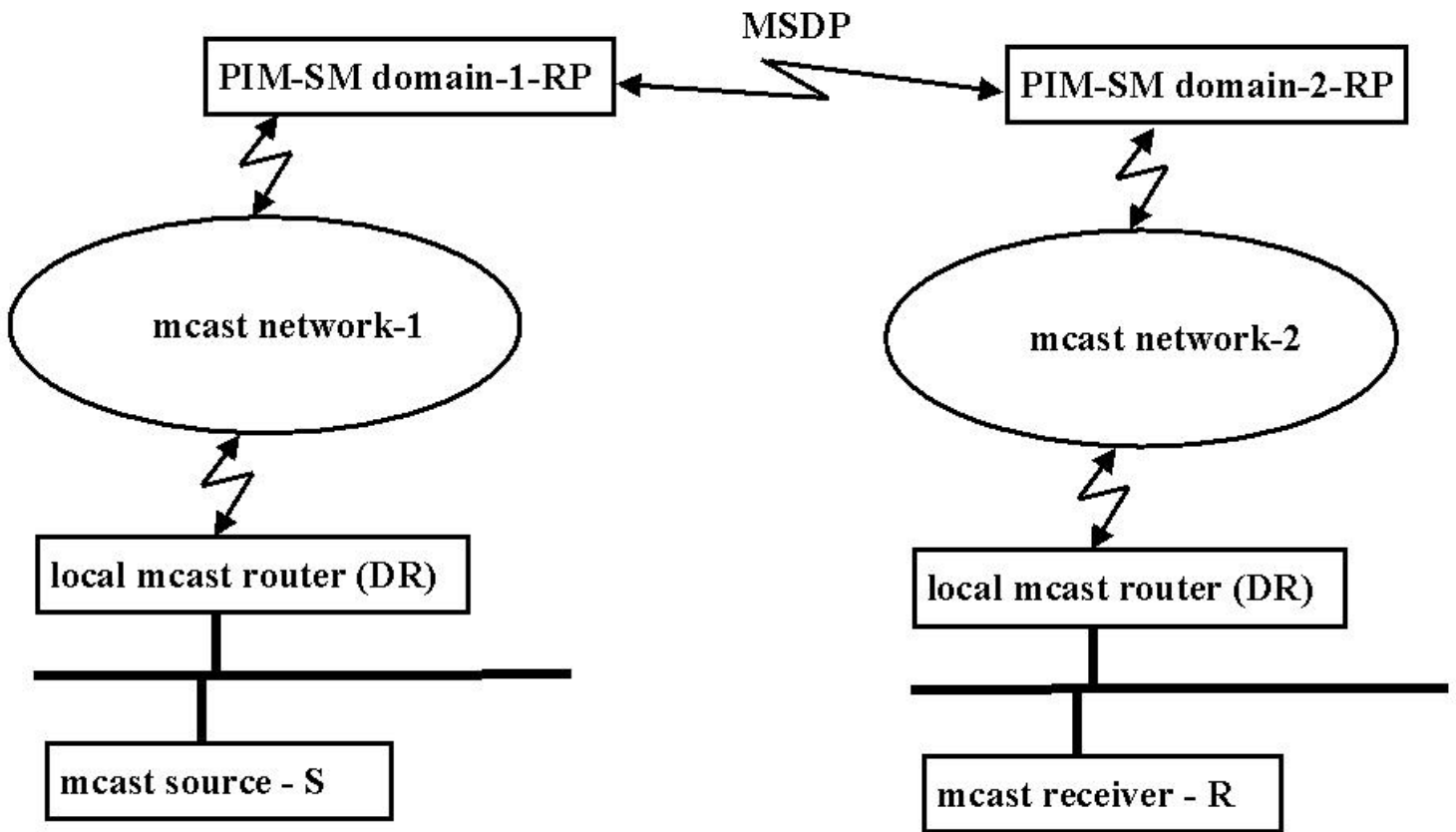
[Solution](#)

**An IP Multicast Tale**  
**jan.novak@dante.org.uk**  
**12th May 2000**

First Previous [Next](#) [Last](#) [Index](#) [Text](#)

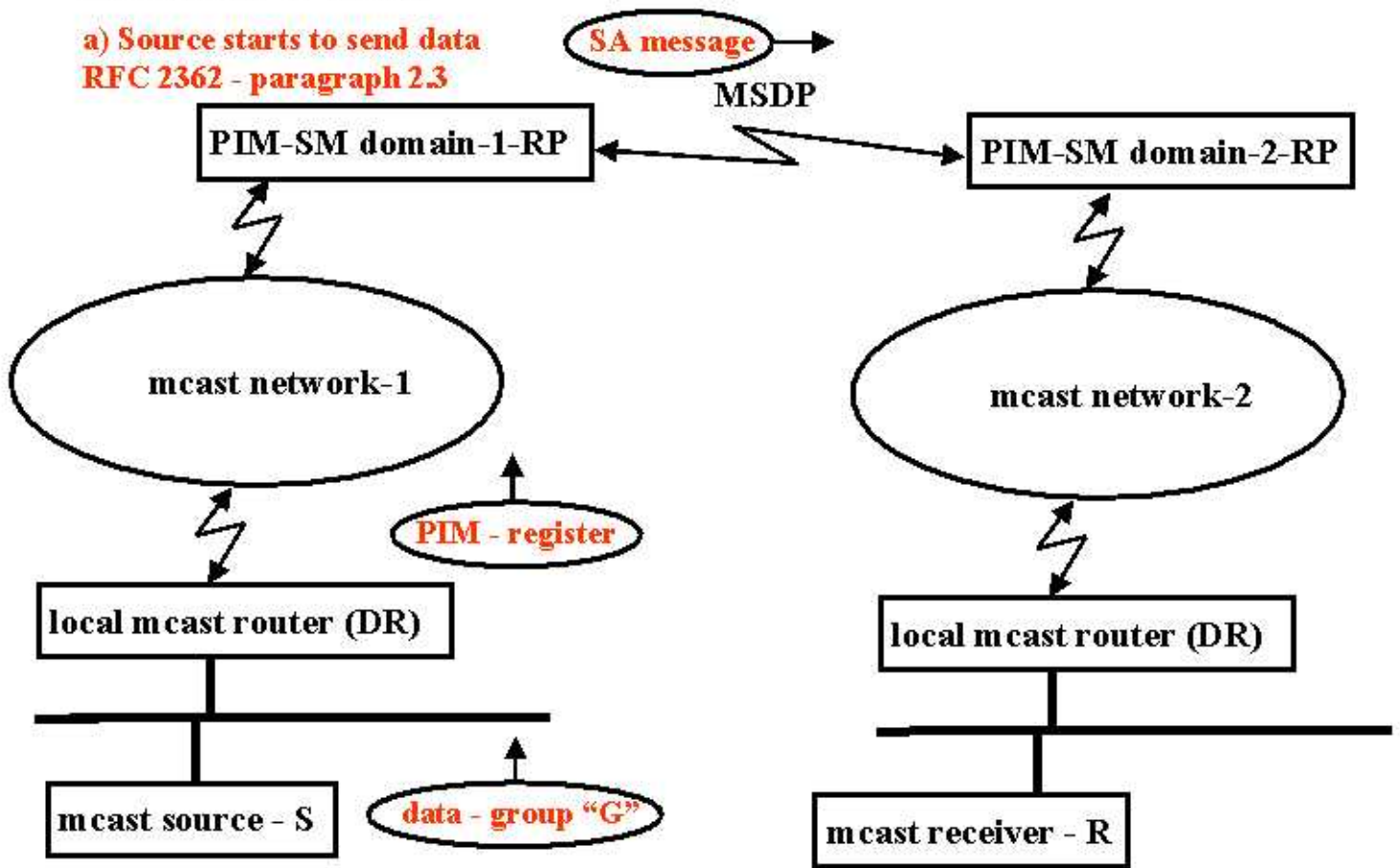
Slide 1 of 9

# 1. Investigated Topology



## 2. Ideal world

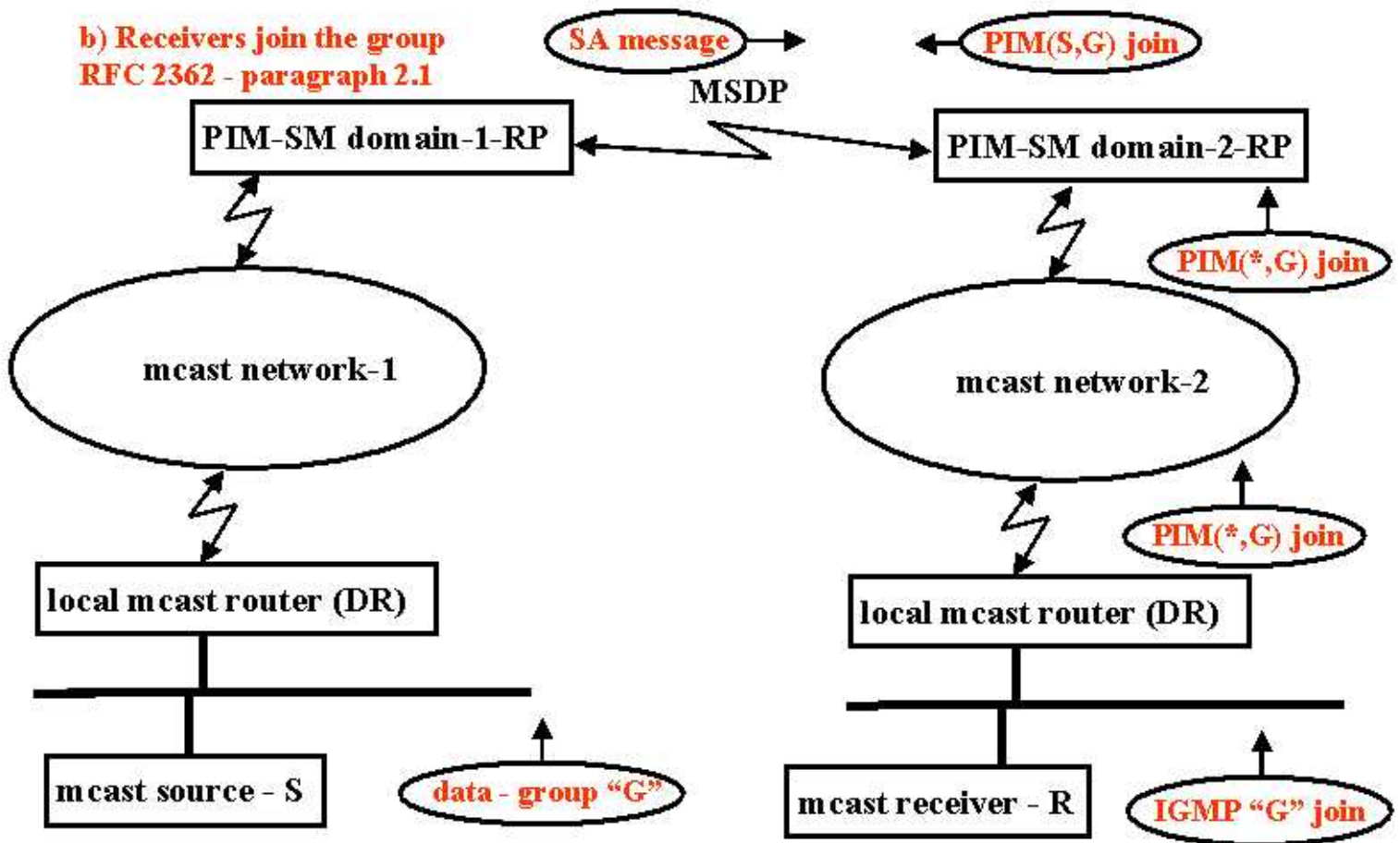
a) Source starts to send data  
RFC 2362 - paragraph 2.3



[First](#) [Previous](#) [Next](#) [Last](#) [Index](#) [Text](#)

## 2. Ideal world

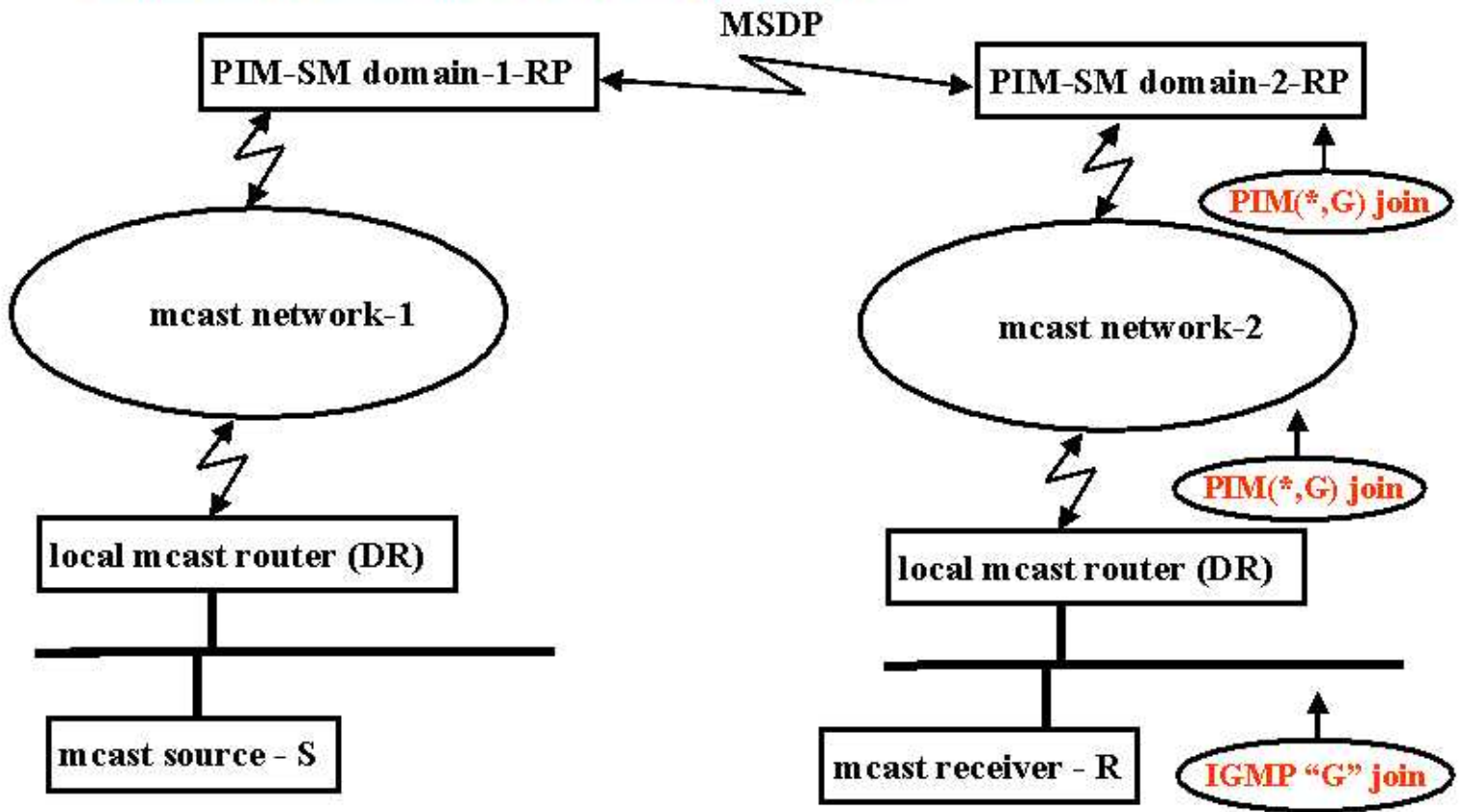
b) Receivers join the group  
RFC 2362 - paragraph 2.1



[First](#) [Previous](#) [Next](#) [Last](#) [Index](#) [Text](#)

## 2. Ideal world

c) Sender stops to send data - no SA message, no (S,G) join

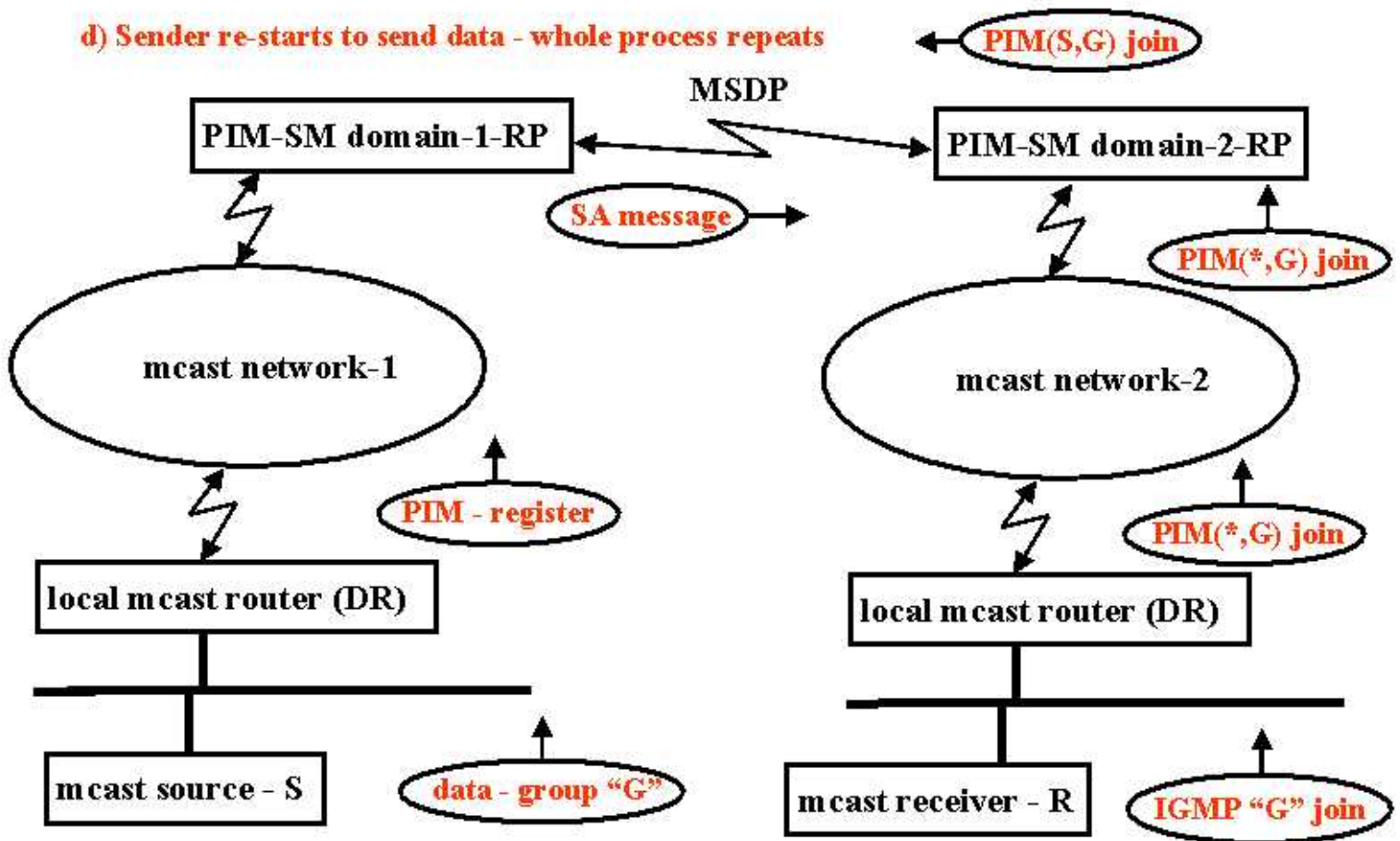


[First](#) [Previous](#) [Next](#) [Last](#) [Index](#) [Text](#)

Slide 5 of 9

## 2. Ideal world

d) Sender re-starts to send data - whole process repeats

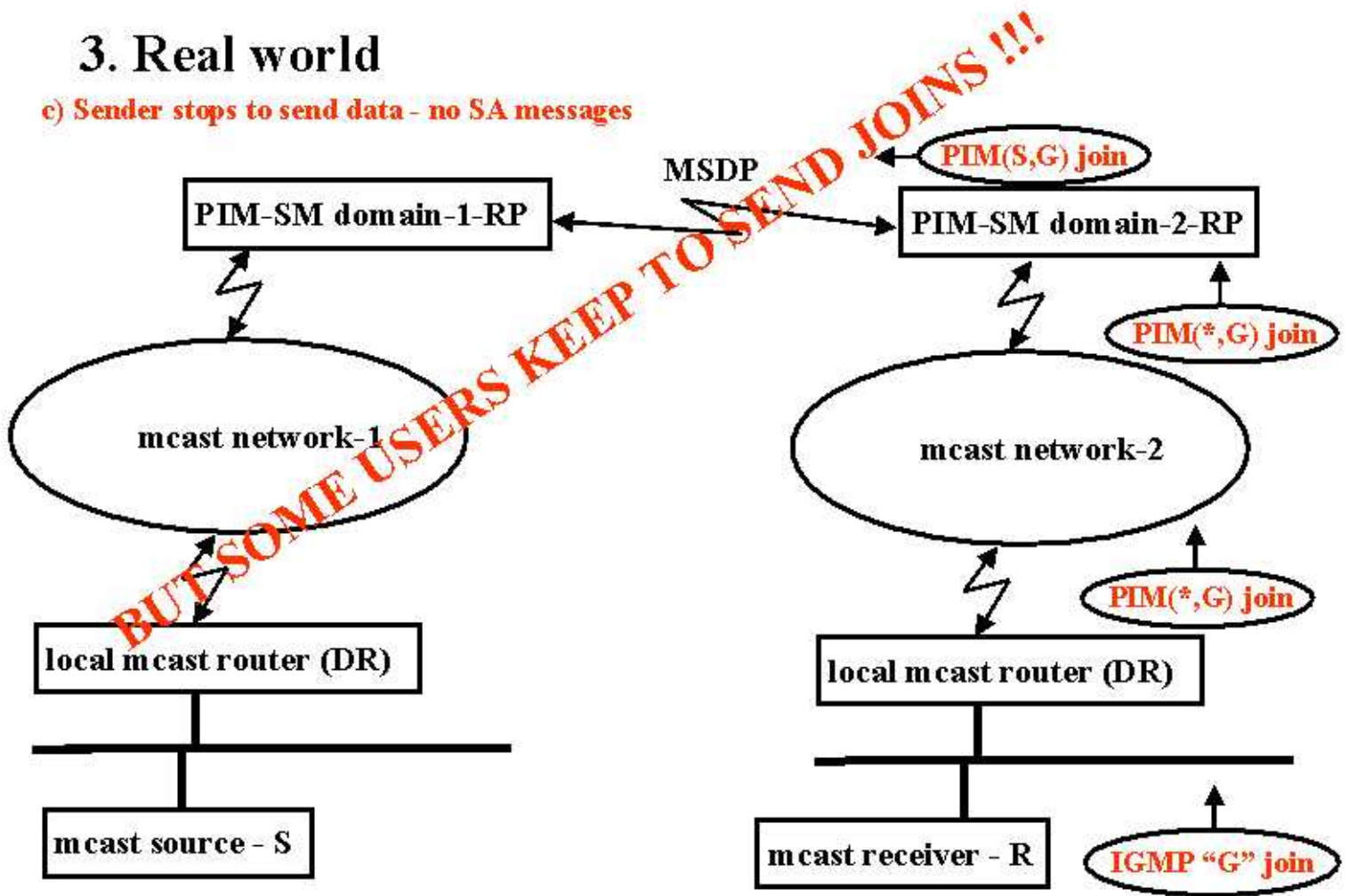


[First](#) [Previous](#) [Next](#) [Last](#) [Index](#) [Text](#)

Slide 6 of 9

### 3. Real world

e) Sender stops to send data - no SA messages



### 3. Real world

d) Sender re-starts to send data

- no SA message

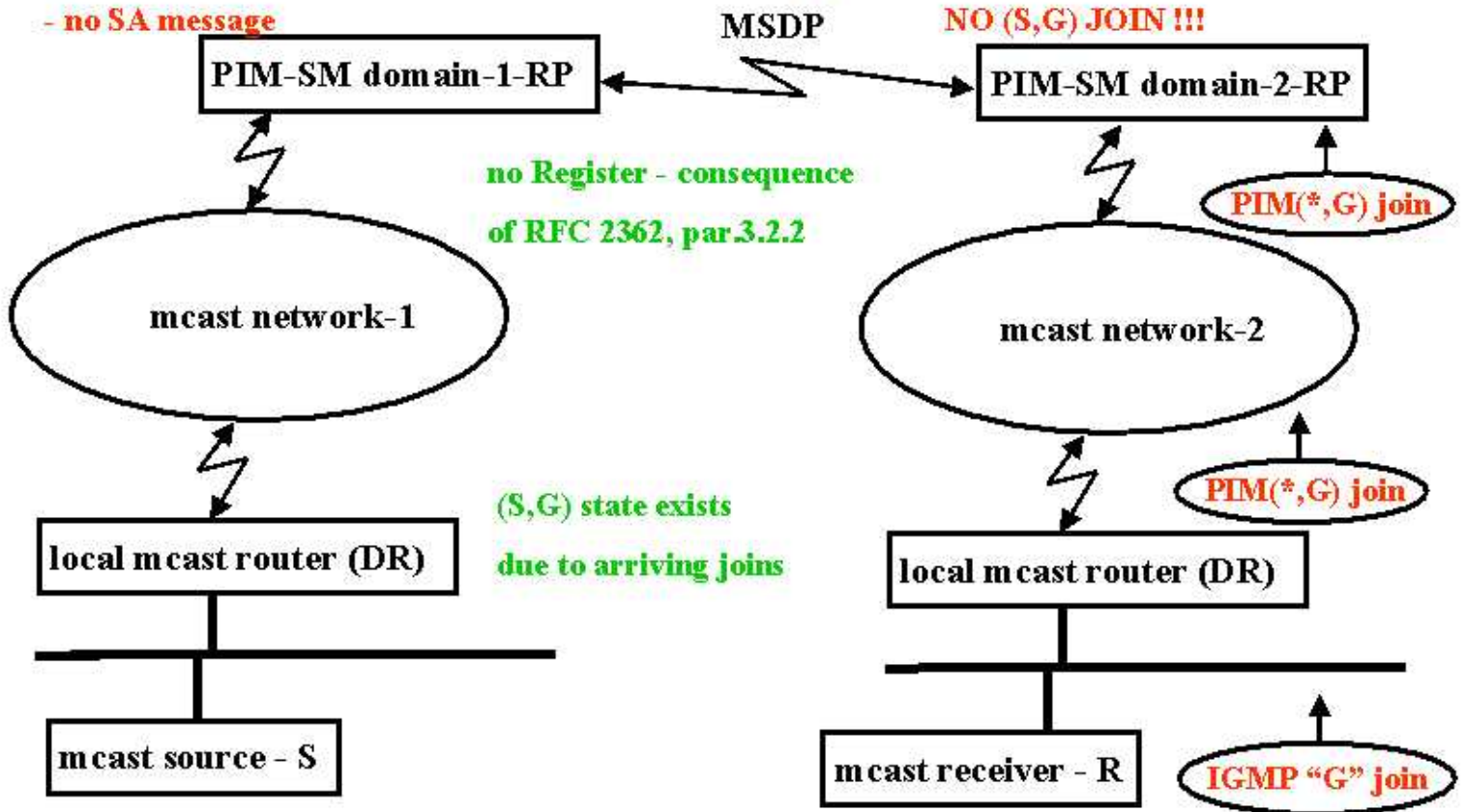
no SA message due

to the absence of Register

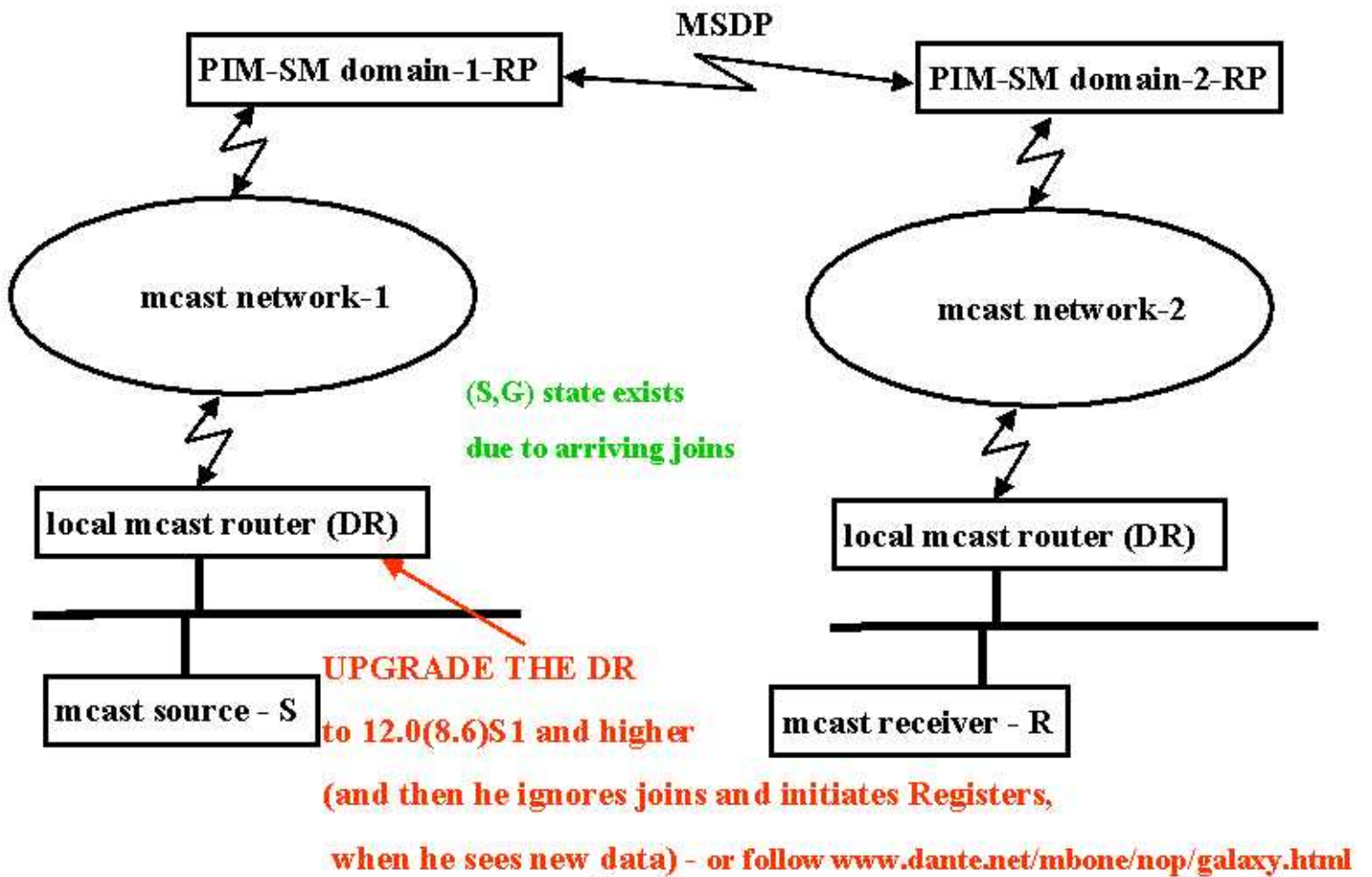
Domain, which behaves properly

does not have info about source S!!!!

NO (S,G) JOIN !!!



## 4. Solution



[First](#) [Previous](#) [Next](#) [Last](#) [Index](#) [Text](#)