New changes on DR Infrastructure - PUMA Trading System

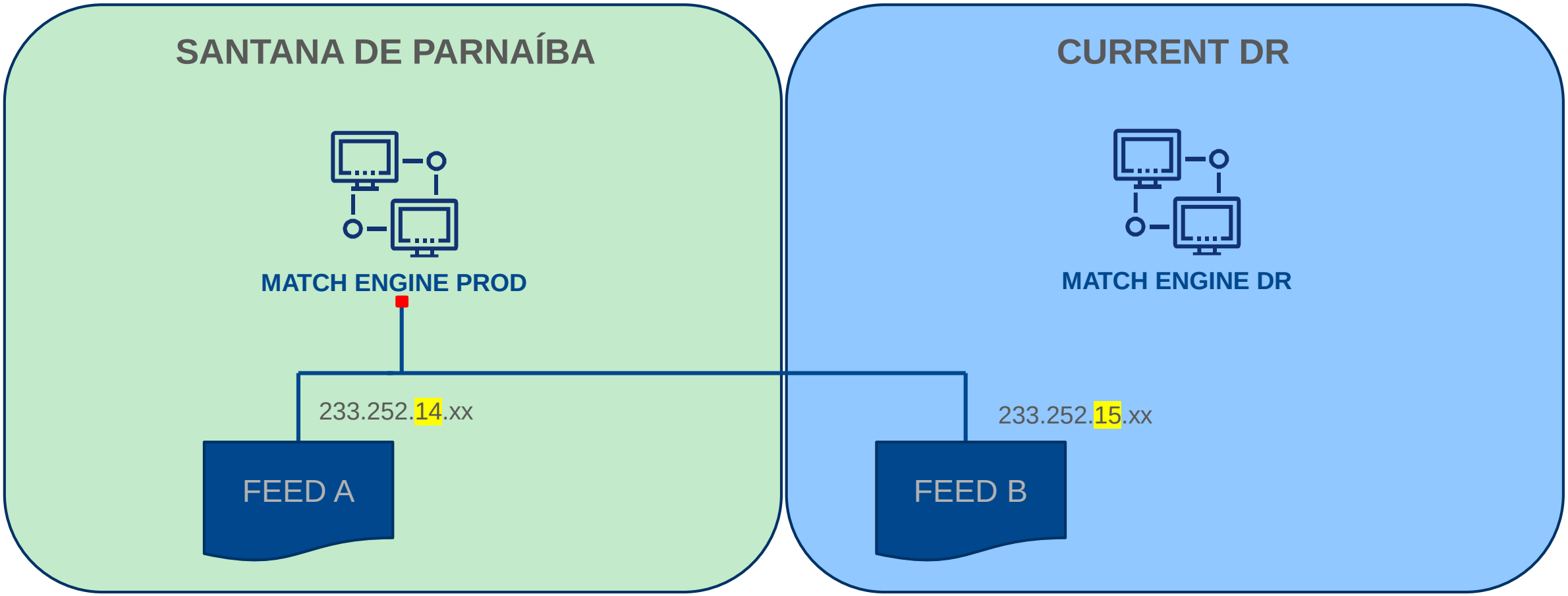
WORKSHOP – NEW CHANGES ON DR INFRASTRUCTURE – PUMA TRADING SYSTEM

AGENDA

- PUMA Trading System Architecture
- Network Configurations
- Trading Services
- Activities Timeline
- Conclusion

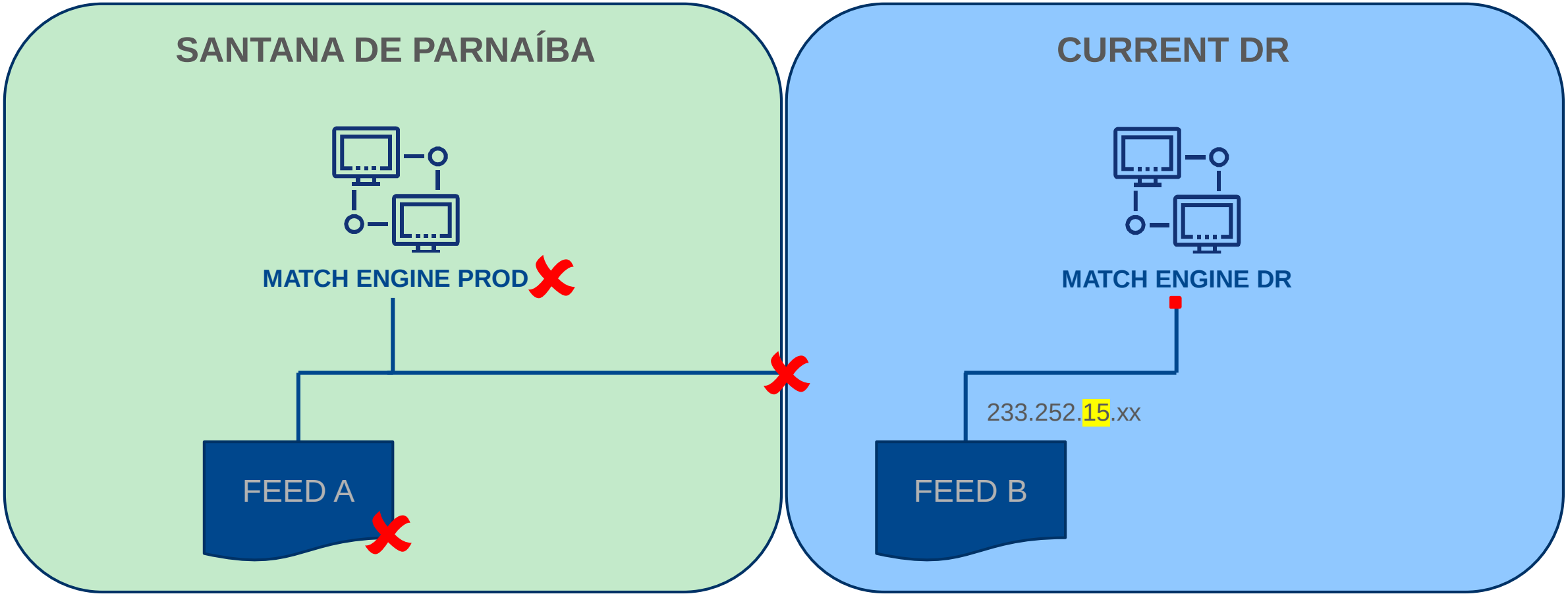
PLATAFORM ARCHITECTURE

CURRENT PRODUCTION – FEED-A AND FEED-B

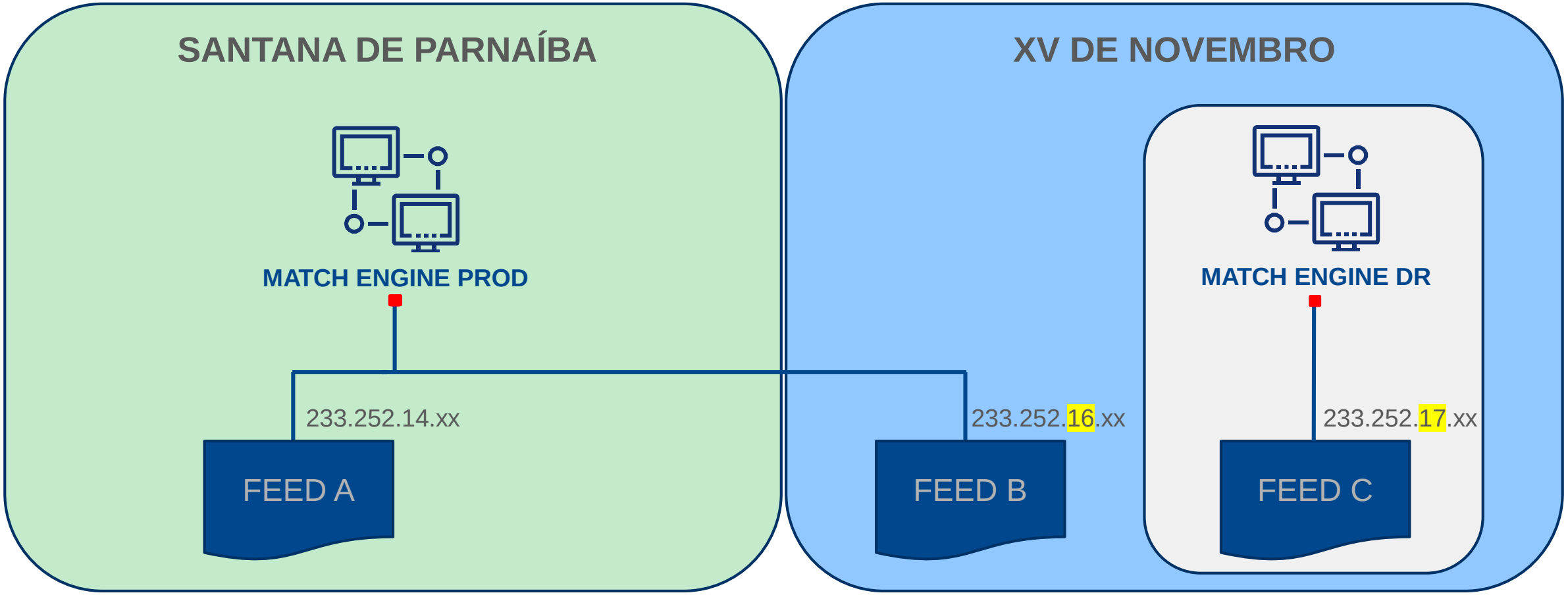


CURRENT DR – FEED-A AND FEED-B

DR Mock Tests and DR events

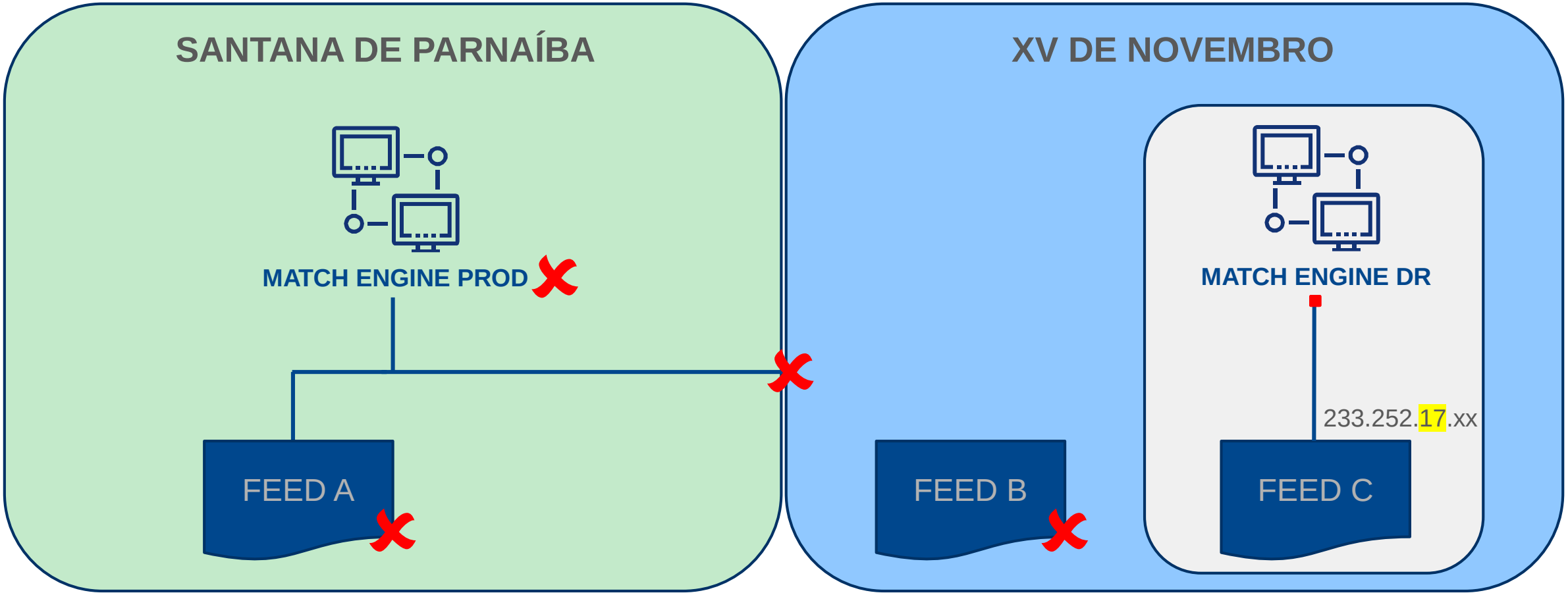


CREATION OF NEW DR EXCLUSIVE – FEED-C AND NEW IPs FOR FEED-B



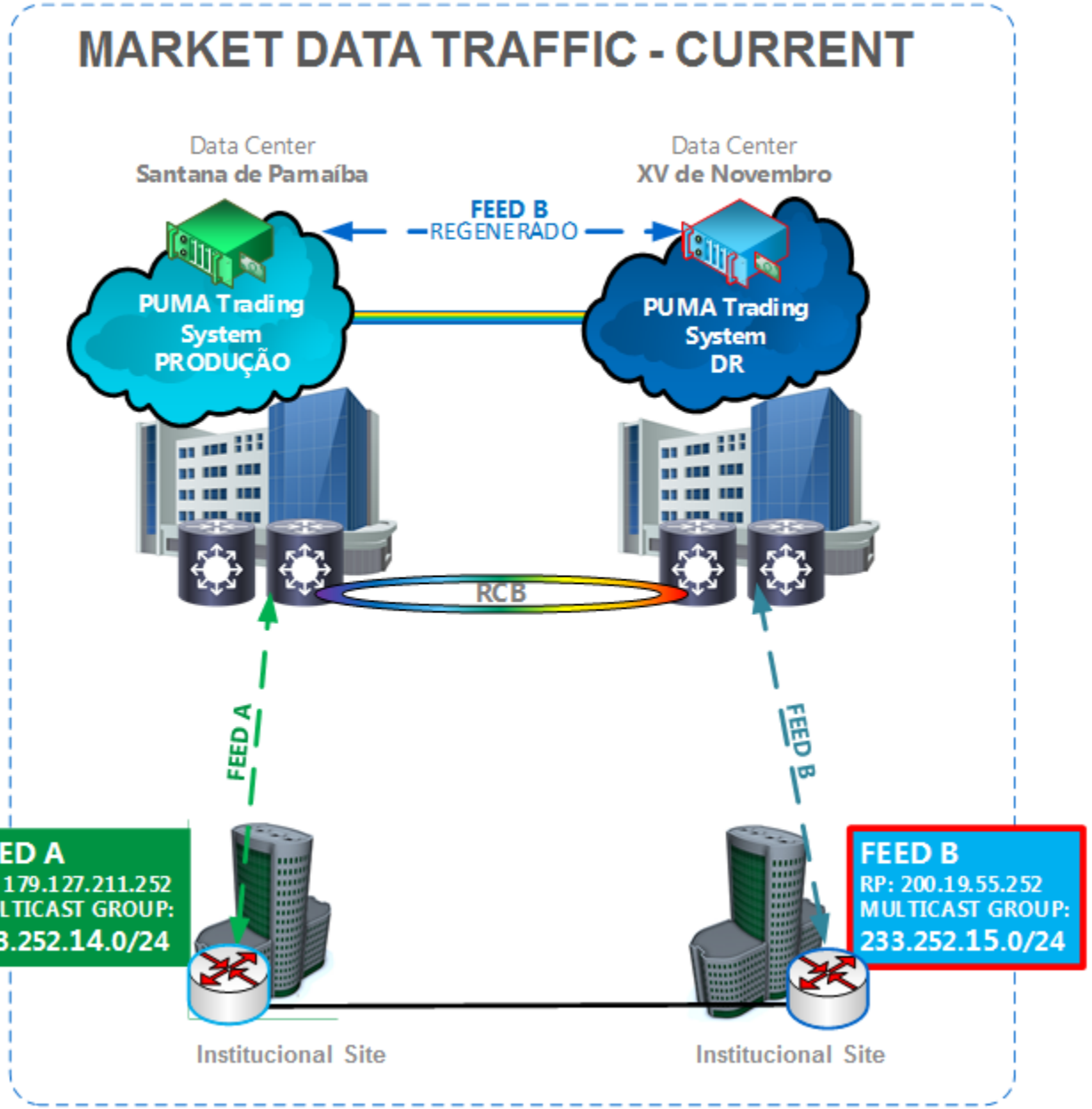
CREATION OF NEW DR EXCLUSIVE – FEED-C AND NEW IPs FOR FEED-B

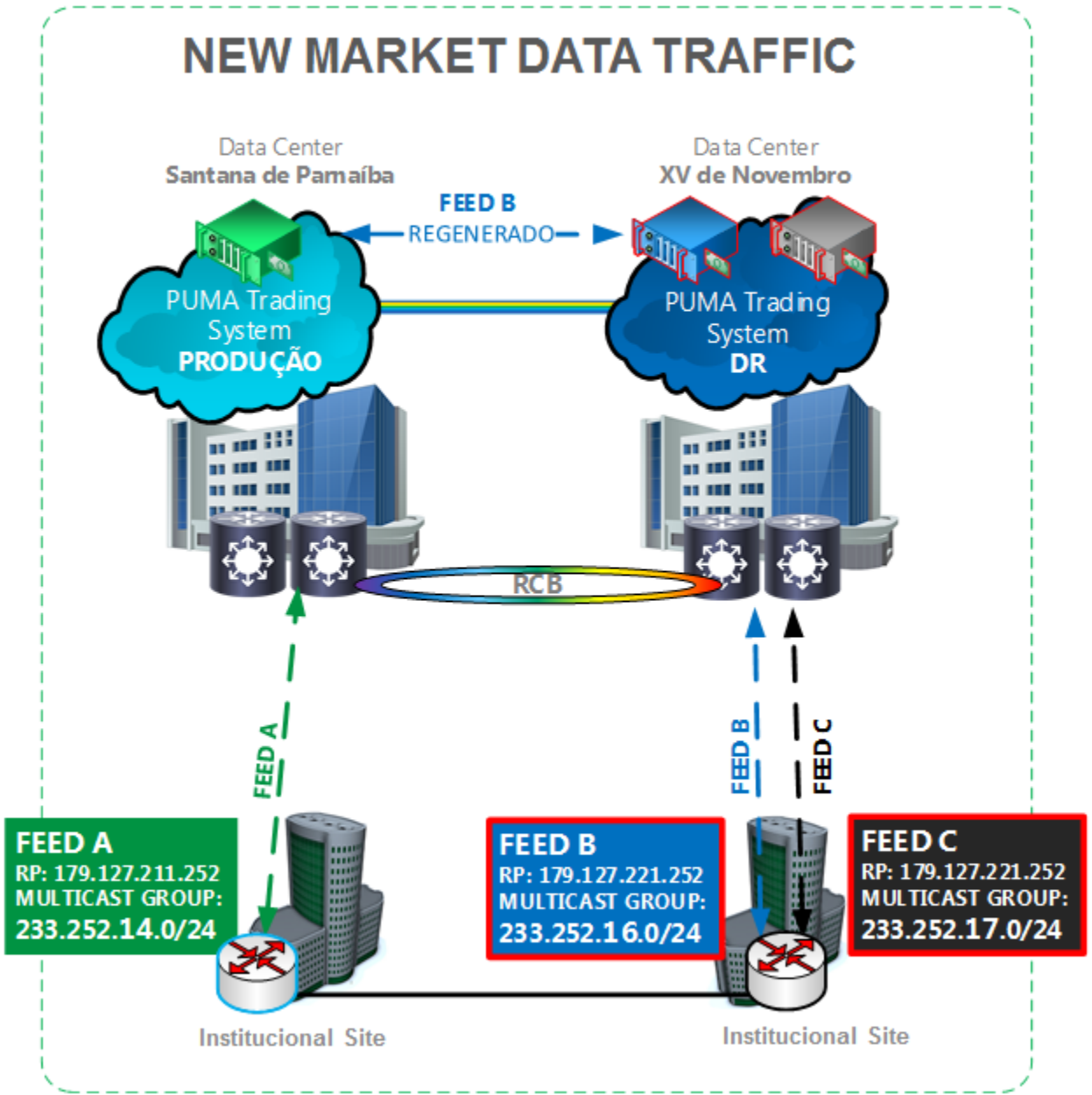
DR Mock Tests and DR events



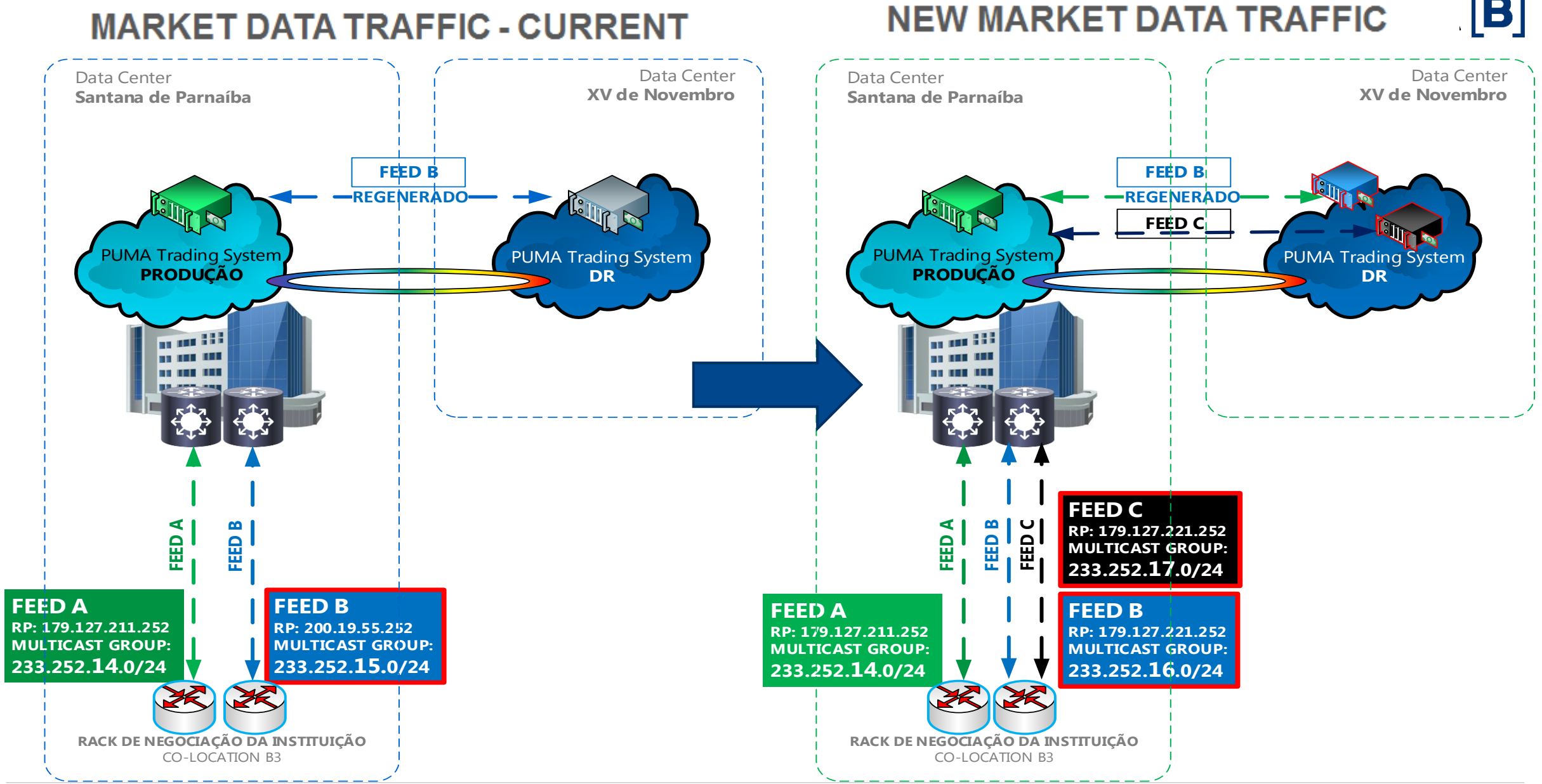
NETWORK CONFIGURATIONS

RCB

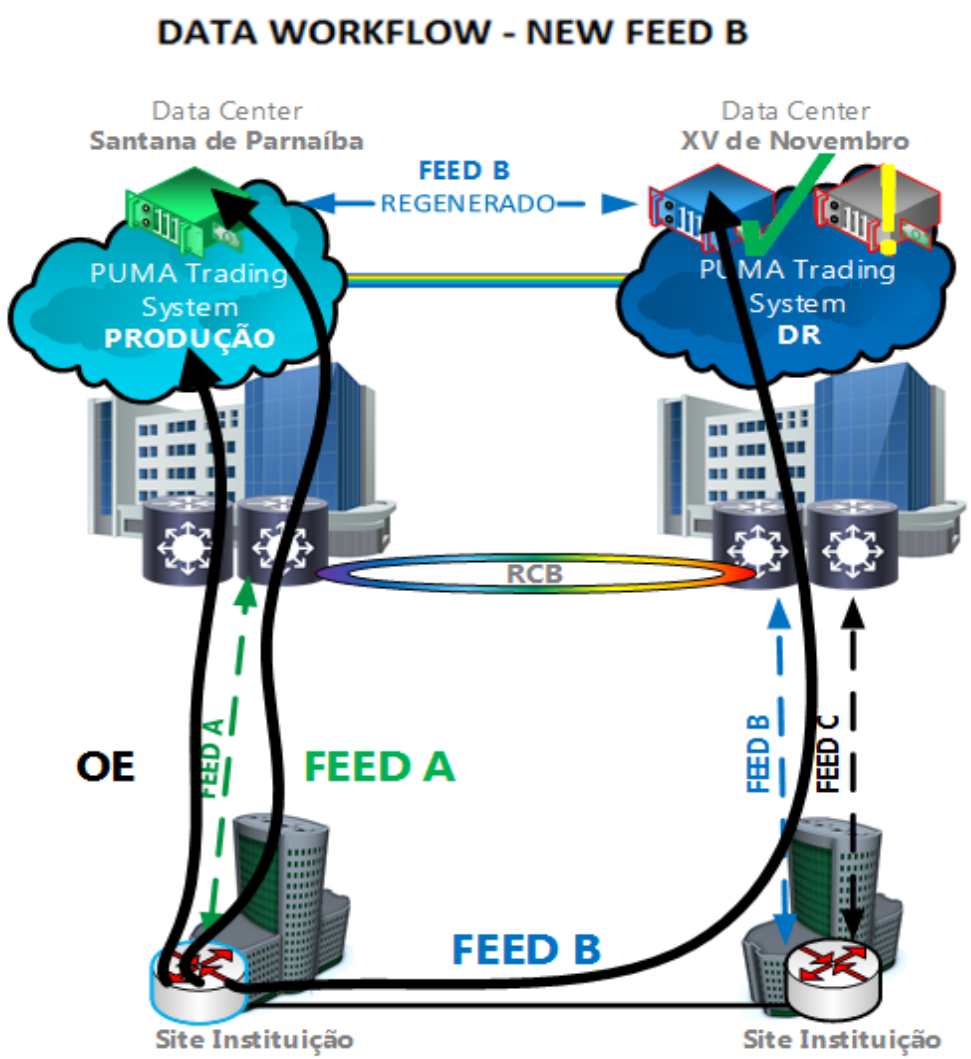

MARKET DATA TRAFFIC - CURRENT
Data Center
Santana de Parnaíba
Data Center
XV de Novembro
FEED B
REGENERADO
PUMA Trading System PRODUÇÃO
PUMA Trading System DR
RCB
FEED A
FEED B
FEED A
RP: 179.127.211.252
MULTICAST GROUP:
233.252.14.0/24
FEED B
RP: 200.19.55.252
MULTICAST GROUP:
233.252.15.0/24
Institucional Site
Institucional Site

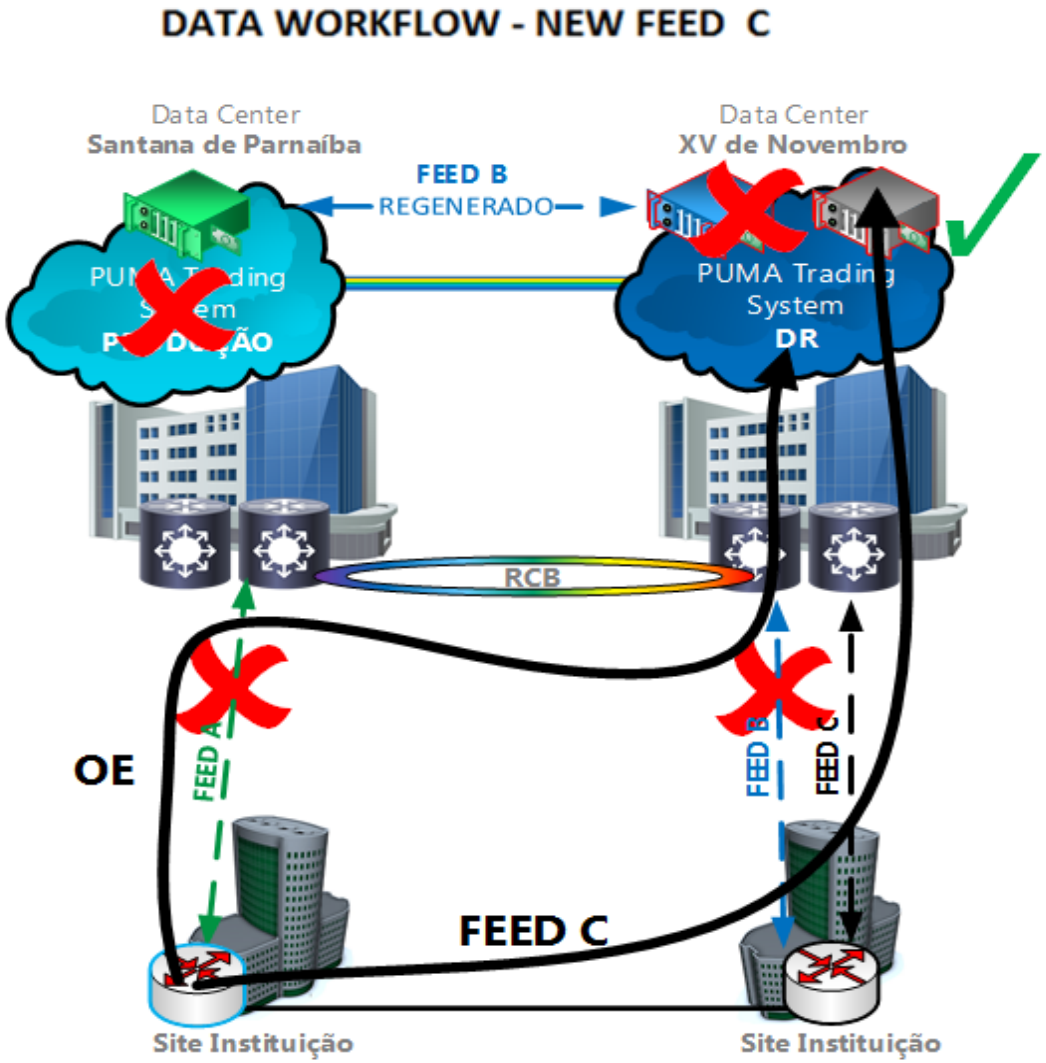

NEW MARKET DATA TRAFFIC
Data Center
Santana de Parnaíba
Data Center
XV de Novembro
FEED B
REGENERADO
PUMA Trading System PRODUÇÃO
PUMA Trading System DR
RCB
FEED A
FEED B
FEED C
FEED A
RP: 179.127.211.252
MULTICAST GROUP:
233.252.14.0/24
FEED B
RP: 179.127.221.252
MULTICAST GROUP:
233.252.16.0/24
FEED C
RP: 179.127.221.252
MULTICAST GROUP:
233.252.17.0/24
Institucional Site
Institucional Site

CO-LOCATION


MARKET DATA TRAFFIC - CURRENT
Data Center
Santana de Parnaíba
Data Center
XV de Novembro
FEED B
REGENERADO
PUMA Trading System
PRODUÇÃO
PUMA Trading System
DR
FEED A
FEED B
FEED A
RP: 179.127.211.252
MULTICAST GROUP:
233.252.14.0/24
FEED B
RP: 200.19.55.252
MULTICAST GROUP:
233.252.15.0/24
RACK DE NEGOCIAÇÃO DA INSTITUIÇÃO
CO-LOCATION B3
NEW MARKET DATA TRAFFIC
Data Center
Santana de Parnaíba
Data Center
XV de Novembro
FEED B
REGENERADO
FEED C
PUMA Trading System
PRODUÇÃO
PUMA Trading System
DR
FEED A
FEED B
FEED C
FEED C
RP: 179.127.221.252
MULTICAST GROUP:
233.252.17.0/24
FEED A
RP: 179.127.211.252
MULTICAST GROUP:
233.252.14.0/24
FEED B
RP: 179.127.221.252
MULTICAST GROUP:
233.252.16.0/24
RACK DE NEGOCIAÇÃO DA INSTITUIÇÃO
CO-LOCATION B3

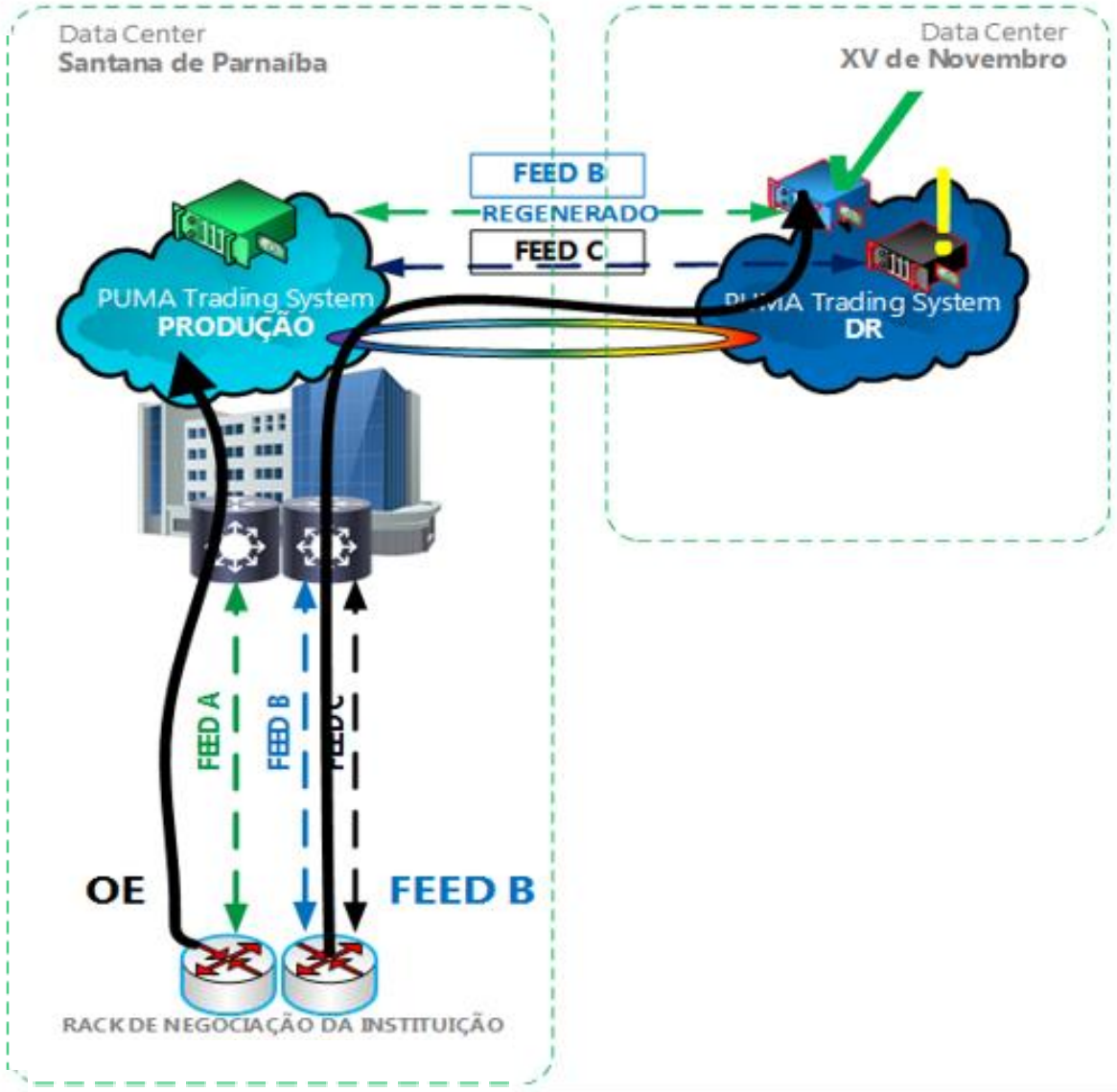
NOVOS FLUXOS DE DADOS - RCB



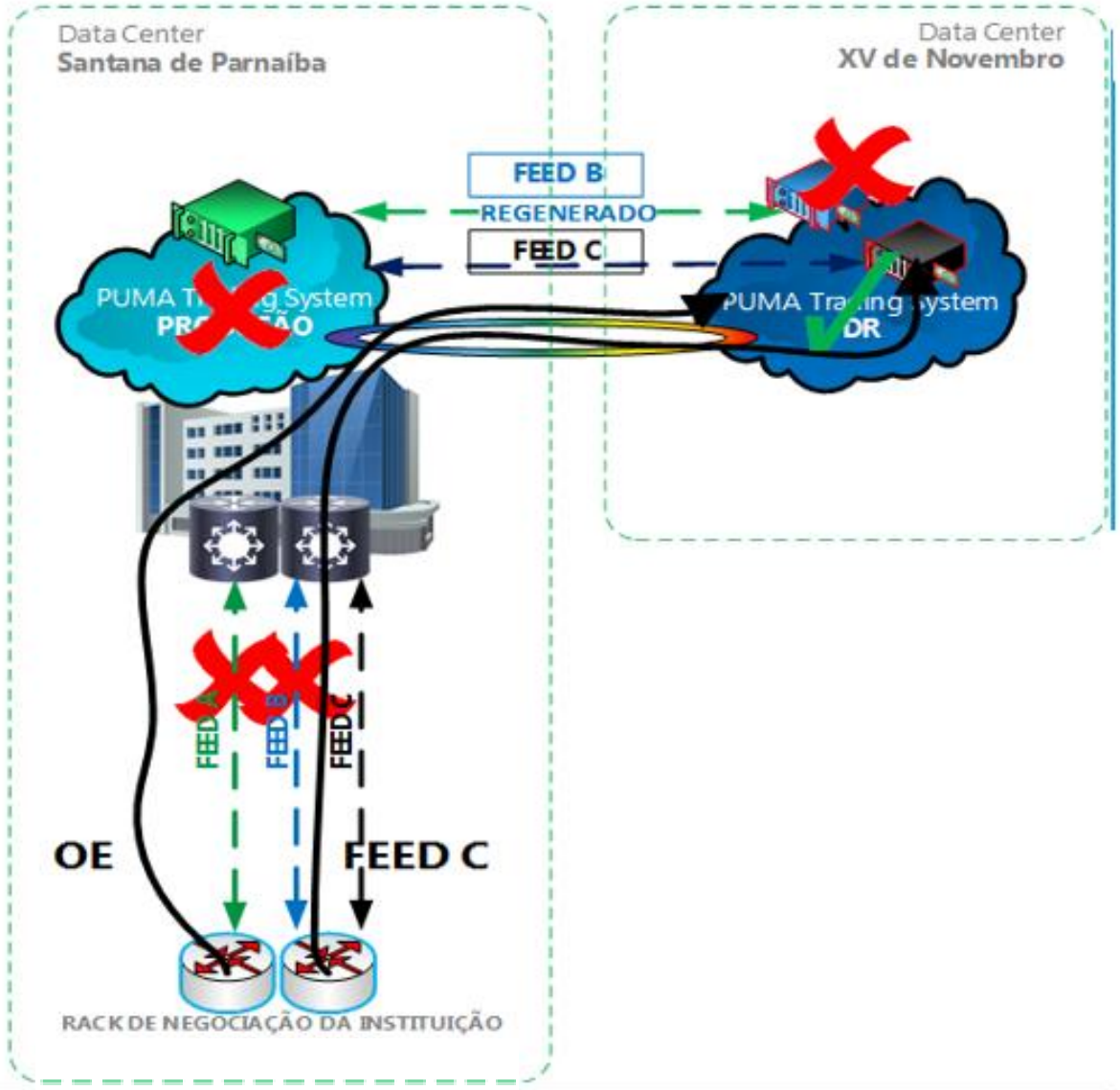


NEW DATA WORKFLOW– CO-LOCATON

DATA WORKFLOW - NEW FEED B



DATA WORKFLOW - NEW FEED C



PUMA DR ADDRESS SUMMARY

PUMA TRADING SYSTEM DR NETWORK (CURRENT)	
ORDER ENTRY	MARKET DATA FEED B
177.54.208.0/23 AND 177.54.223.0/24	179.127.220.0/23

UMDF FEEDS (CURRENT)				
FEED	SEGMENT	RP ADDRESS	MULTICAST SENDERS	MULTICAST GROUPS
A	BM&F & BOVESPA	179.127.221.252	179.127.210.0/23	233.252.14.0/24
B	BM&F & BOVESPA	200.19.55.252	177.54.210.0/24 AND 177.54.216.0/24	233.252.16.0/24

PUMA TRADING SYSTEM DR NETWORK (NEW)		
ORDER ENTRY	MARKET DATA FEED B	MARKET DATA FEED C
179.127.216.0/22	179.127.220.0/23	179.127.222.0/23

NEW UMDF FEEDS				
FEED	SEGMENT	RP ADDRESS	MULTICAST SENDERS	MULTICAST GROUPS
A	BM&F & BOVESPA	179.127.221.252	179.127.210.0/23	233.252.14.0/24
B	BM&F & BOVESPA	179.127.221.252	179.127.220.0/23	233.252.16.0/24
C	BM&F & BOVESPA	179.127.221.252	179.127.222.0/23	233.252.17.0/24

TRADING SERVICES

TRADING SERVICES

- Order Entry
- Drop Copy
- PUMALINK Replayer and Historical Replayer
- Admin Session
- UMDF PUMA Conflated
- Web Tools
- ePUMA (OE, MD)

All Ips address are available on: http://www.bmfbovespa.com.br/pt_br/servicos/negociacao/puma-trading-system-bm-fbovespa/para-desenvolvedores-e-vendors/entrypoint-entrada-de-ofertas/

ACTIVITIES TIMELINE

MIGRATION PLAN

Sessões de Ensaio de DR
July 07; Jul 21; Aug 04; Aug 25

April
Internal Maintenance

July and August
Mock PTRD and Feed B

2018

May and June
Network Configurations/
Firewall rules

August, 25
DR Full Migration / Feed-B

CONCLUSIONS

CONCLUSIONS

August, 25 is near!

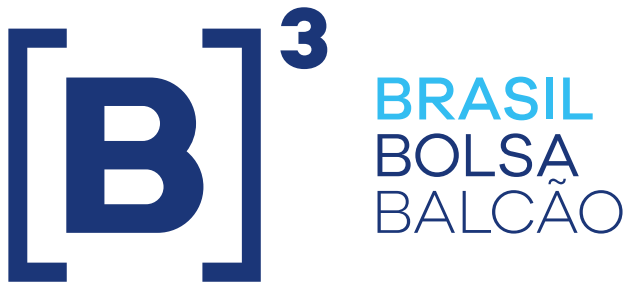
There are no changes for SenderCompID and Target CompID of Trading sessions, neither for connection ports.

Connectivity IPs will be different from Production IPs

Feed-C should not be used for Recovering Production Messages purpose. This Feed is exclusive for DR.

There are exclusive tests instruments for DR environment.

All participants will have to test DR environment during daily Morning test and also on Business Continuity Plan(PTRD) .



Evandro Oliveira / Rodrigo Tatekawa / Thiago Ferraz / Valmir Junior

Phone details: +55 11 2565-5000