

TARGET2 - Inter-region failover -

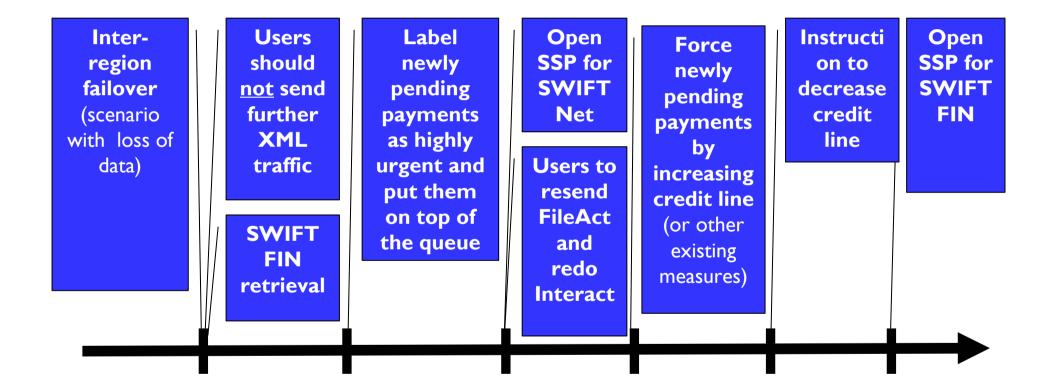






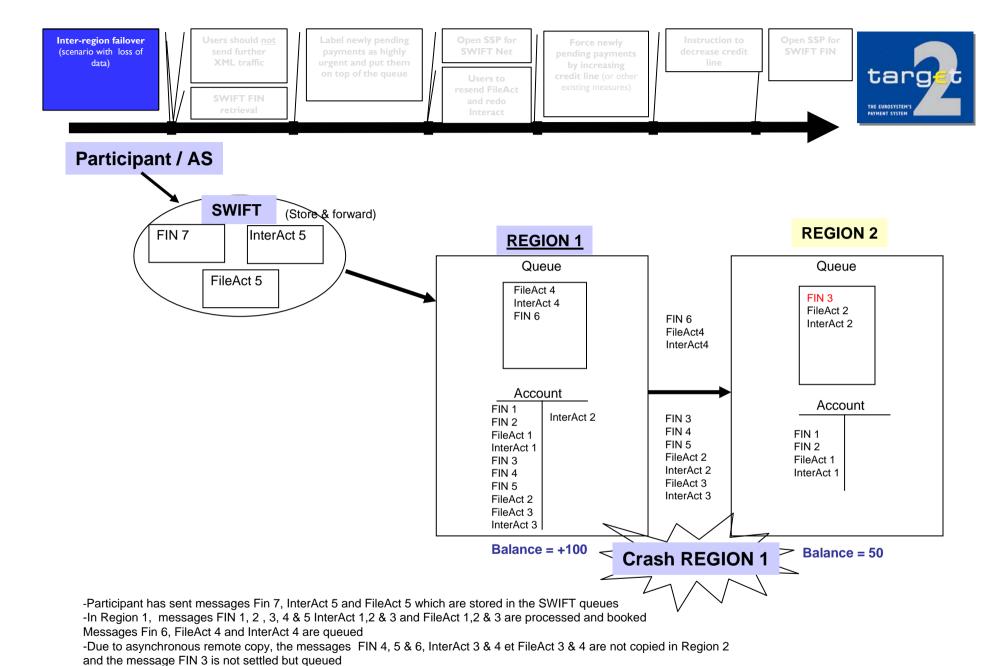
Inter-region failover - Proposed handling







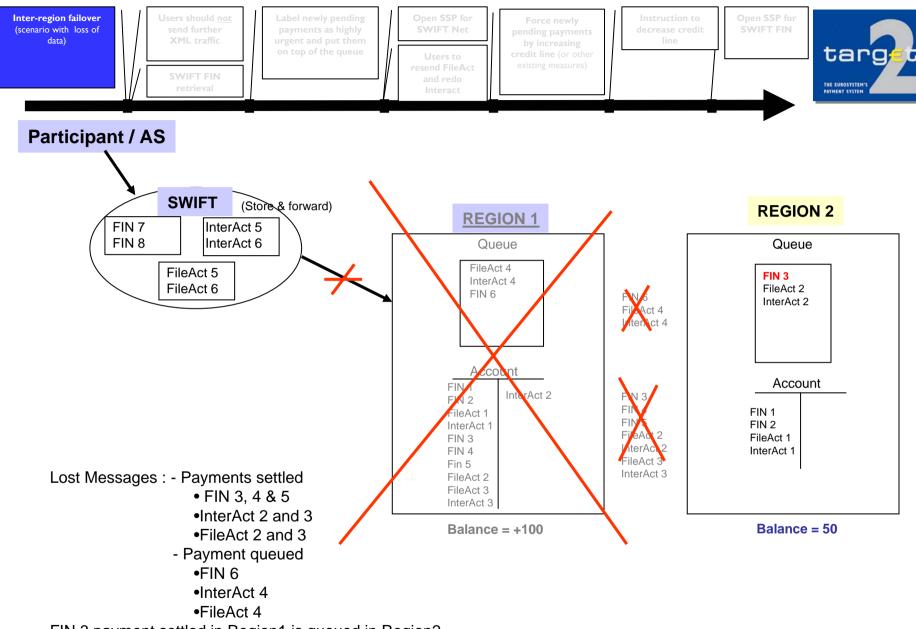












FIN 3 payment settled in Region1 is queued in Region2 Participants send messages Fin 8, InterAct 6 and FileAct 6







Users should not send further XML traffic

Label newly pending payments as highly urgent and put them on top of the queue Open SSP for SWIFT Net

Users to resend FileAct and redo

Force newly pending payments by increasing credit line (or other existing measures) Instruction to decrease credit

Open SSP for SWIFT FIN

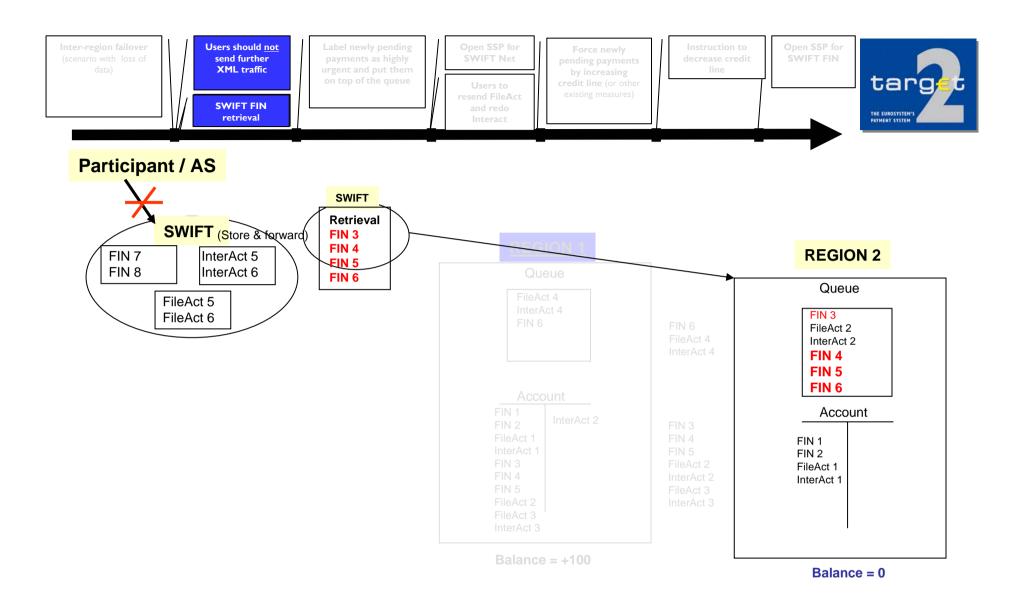


	Status	Roles
SSP operator	Alert	Information delivery Start of the failover to the second region
CBs	No access to ICM, no answers to FIN	No action required
Participants	No access to ICM, no answers to FIN	No action required
AS	No access to ICM, no answers to FIN	No action required







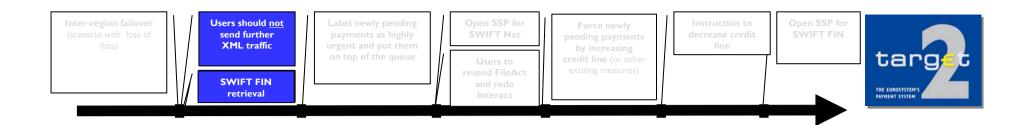


Process of reconstruction of SSP: - retrieval SWIFT FIN: messages retrieved FIN 3, 4, 5 & 6 First step of resettlement, FIN 3 is settled and FIN 4, 5 & 6 are queued because of lack of liquidity









HAM payments :

- Based on retrieval of FIN messages MT202, MT103, MT103+, MT012 and MT019 => no loss of data
- Only liquidity transfers sent through the ICM (U2A or A2A) have to be checked in R2 through ICM
- As for PM FIN payments, after the re-settlement process, payments are :
 - Either settled in R2
 - Or queued in R2 in case of lack of liquidity

nb: payments already settled in R2 before the crash are rejected thanks to double entry check







Users should <u>not</u> send further XML traffic

SWIFT FIN

retrieval

Label newly pending payments as highly urgent and put them on top of the queue Open SSP for SWIFT Net

Users to resend FileAct

Force newly pending payments by increasing credit line (or other existing measures) Instruction to decrease credit

Open SSP for SWIFT FIN

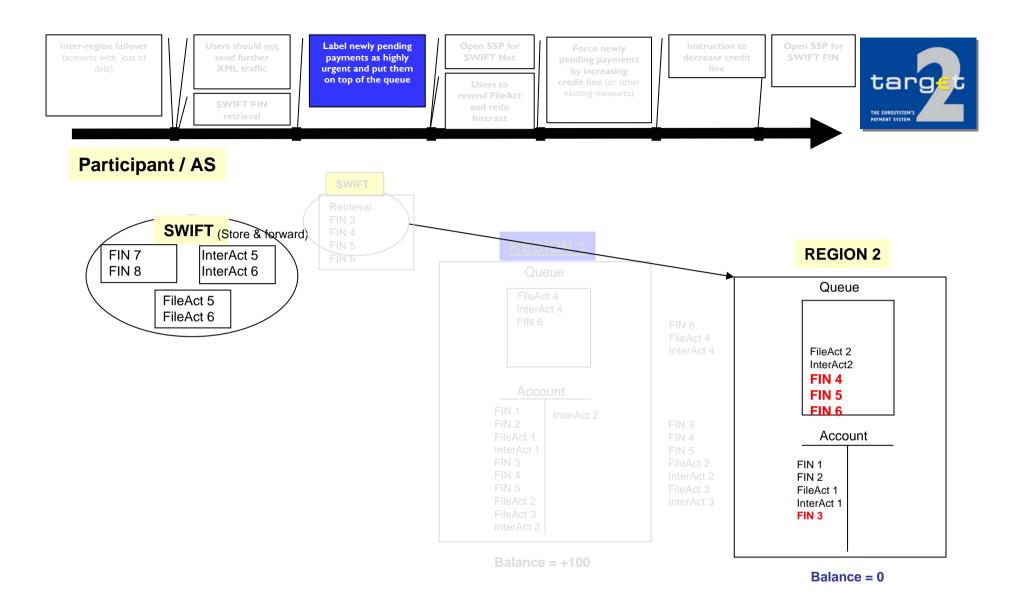


	Status	Roles	
SSP operator	Swift FIN retrieval ongoing	Initiate and monitor the retrieval and reconciliation (FIN)	
CBs	No access to ICM, no answers to FIN	Information to the users	
Participants	No access to ICM, no answers to FIN	Participants asked to stop their XML traffic	
AS	No access to ICM, no answers to FIN	AS asked to stop their XML traffic	









Retrieval of payments settled in Region 1

- FIN 3 booked in Region 2
- FIN 4 & 5 put on the top of the highly urgent queue







Users should <u>not</u> send further XML traffic Label newly pending payments as highly urgent and put them on top of the queue Open SSP for SWIFT Net

Users to
resend FileAct
and redo
Interact

Force newly pending payments by increasing credit line (or other existing measures) Instruction to decrease credit

Open SSP for SWIFT FIN

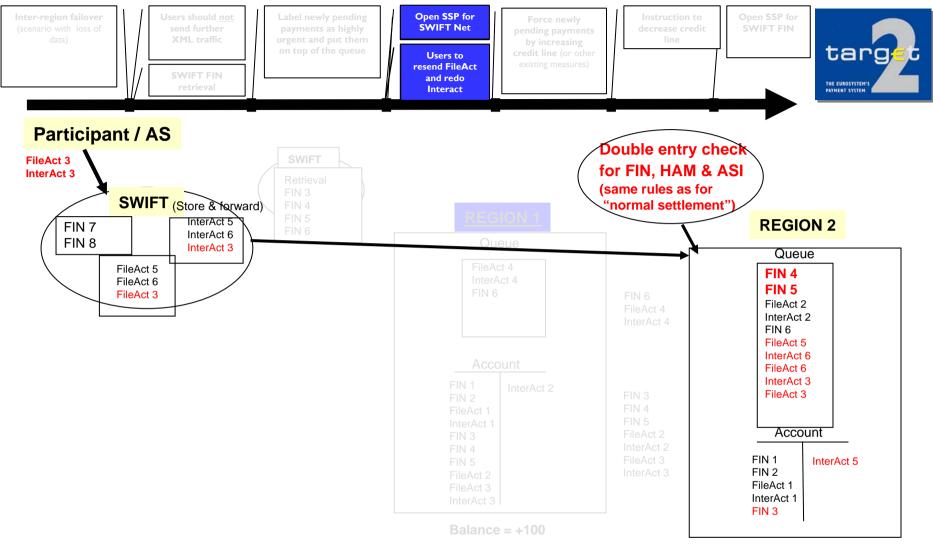


	Status	Roles	
SSP operator	Swift FIN retrieval ongoing	Monitor the retrieval and reconciliation process	
CBs	No access to ICM, no answers to FIN	Information to the users	
Participants	No access to ICM, no answers to FIN	No specific action required	
AS	No access to ICM, no answers to FIN	No specific action required	









Balance = 50 + interact 5 = 100

Participants resend messages InterAct 3 and FileAct 3
Open SSP for SWIFT net: the messages in SWIFT queue InterAct 5 and 6 and FileAct 5 and 6 are processed InterAct 5 is booked and FIN 4 can be booked.





Users should <u>not</u> send further XML traffic

SWIFT FIN retrieval

Label newly pending payments as highly urgent and put then on top of the queue



Interact

Force newly pending payments by increasing credit line (or other existing measures)

Instruction to decrease credit

Open SSP for SWIFT FIN

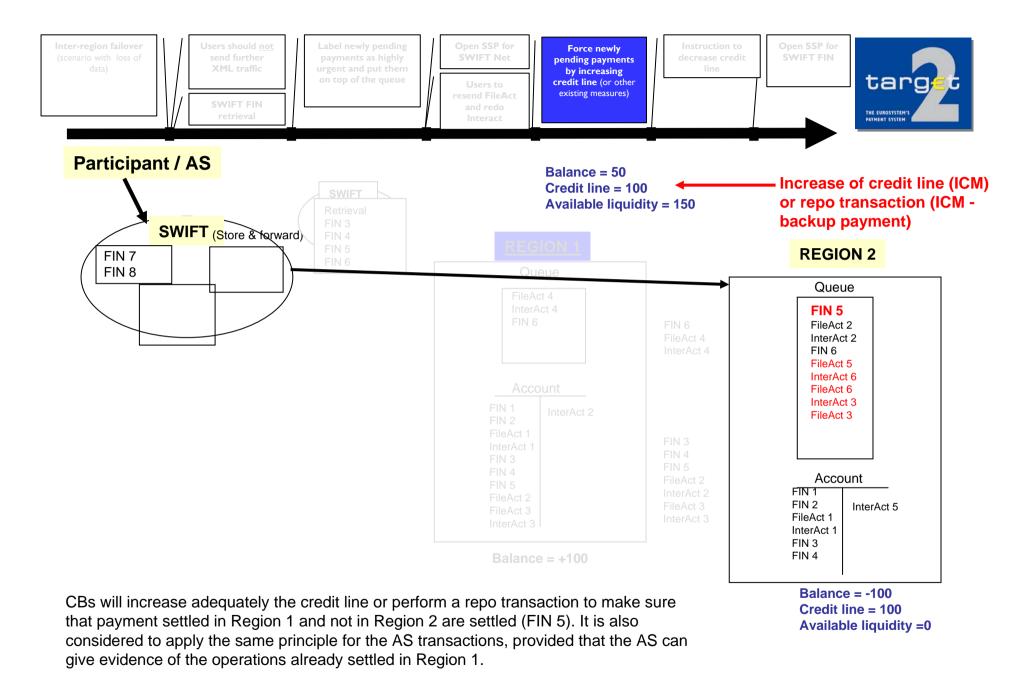


	Status	Roles
SSP operator	Swift FIN retrieval over	Confirm the end of the retrieval
		Open the SWIFTNET services (not FIN)
CBs	ICM open, no answers to FIN	Information to the users
Participants	ICM open, no answers to FIN	Resend the FileAct and Interact traffic already settled in R1
AS	ICM open, no answers to FIN	Resend the FileAct and Interact traffic already settled in R1





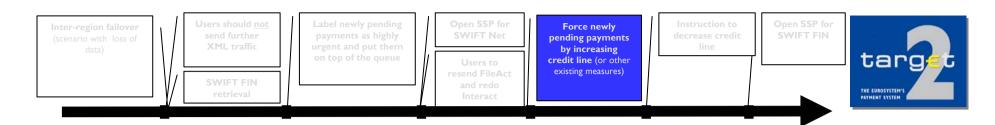










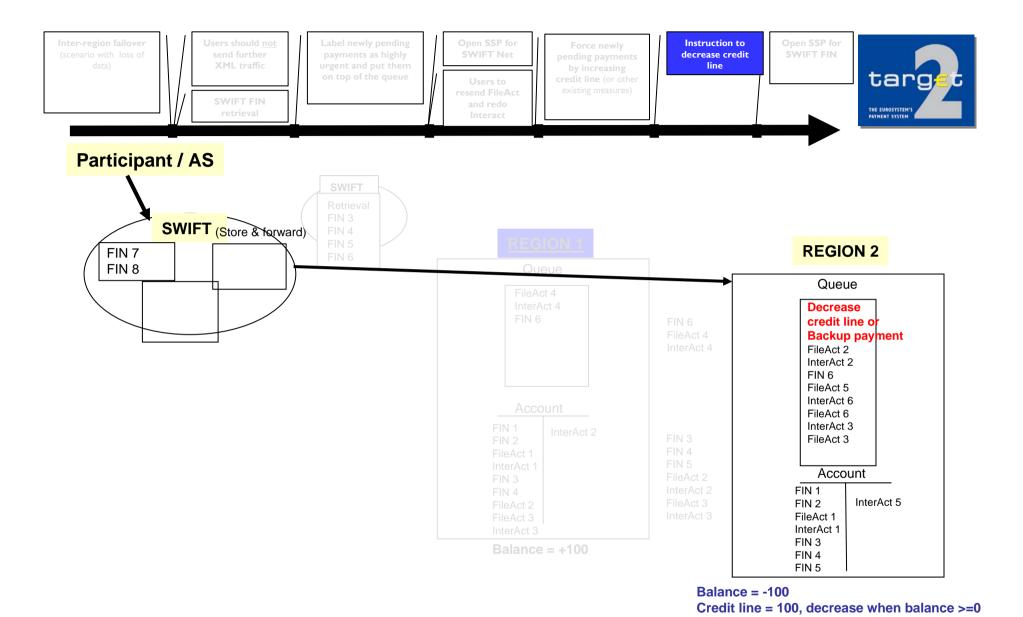


	Status	Roles
SSP operator	Swift FIN retrieval over	Monitoring the SSP
CBs	ICM open, no answers to FIN	Increase adequately the credit lines or repo transaction
Participants	ICM open, no answers to FIN	No action required
AS	ICM open, no answers to FIN	No action required









Then after settlement CBs send an instruction to decrease the credit line when balance is >= 0





Users should <u>not</u> send further XML traffic

Label newly pending payments as highly urgent and put them on top of the queue Open SSP for SWIFT Net

Users to resend FileAct and redo

Force newly pending payments by increasing credit line (or other existing measures) Instruction to decrease credit line

Open SSP for SWIFT FIN

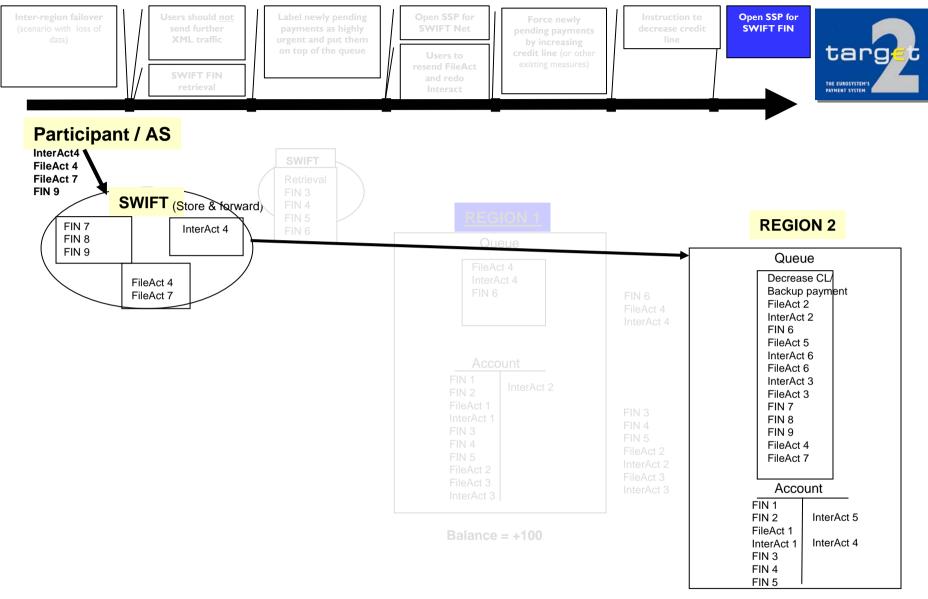


	Status	Roles	
SSP operator	Swift FIN retrieval over	Monitoring the SSP	
CBs	ICM open, no answers to FIN	Decrease the credit lines or repo transaction?	
Participants	ICM open, no answers to FIN	No action required	
AS	ICM open, no answers to FIN	No action required	









Balance = 0 Credit line = 100, decrease when balance >=0

Participants send messages FIN 9, InterAct 4 and FileAct 4 & 7





Users should <u>not</u> send further XML traffic

urgent and pu on top of the Open SSP for SWIFT Net

Force newly pending payments by increasing credit line (or other existing measures) Instruction to decrease credit

Open SSP for SWIFT FIN

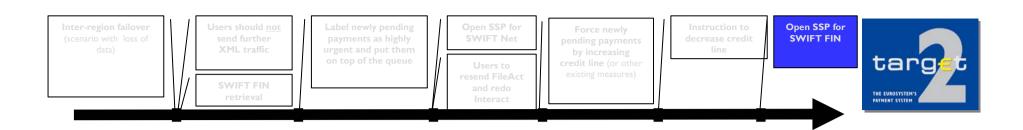


	Status	Roles	
SSP operator	Swift FIN retrieval over	Monitoring the SSP Opening the SSP (FIN)	
CBs	ICM open, no answers to FIN	Information to users	
Participants	ICM open, no answers to FIN	Send normal traffic (FIN + SWIFTNet Services)	
AS	ICM open, no answers to FIN	Send normal traffic (FIN + SWIFTNet Services)	









AS SETTLEMENT - RULES

- 1- No retrieval for InterAct and FileAct services
- 2- Whatever the settlement procedure a xml message or a xml file is either:
 - Not fully copied in region 2
 In this case the AS will be asked to send the XML message or the XML file again
 - Fully copied in region 2
 - In the case the processing of the file is only partial in Region 2, it will continue with the processing of rebuilding of the system (no new sending of the message or file is required).
- 3- The way to force the AS operations already settled in region 1 is described in the next slides







send further

XML traffic

payments as highly urgent and put then on top of the queue Open SSP for SWIFT Net Users to

Force newly pending payments by increasing credit line (or other existing measures) nstruction to ecrease credit Open SSP for SWIFT FIN

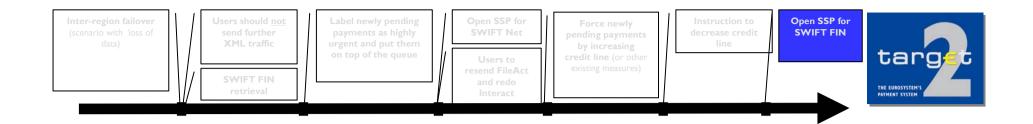


_		
Settlement model	Description	Settled in region1
		Queue status in region2
Procedure 1	-Liquidity transfer from mirror account to settlement bank RTGS account	- Not applicable (settled
	(XML message coming from AS)	immediately)
	-Liquidity transfer from settlement bank RTGS account to mirror account (MT202)	- In highly urgent queue
Procedure 2	Real - time settlement	In highly urgent queue
	Accounts of 2 PM participant or between PM participant and As	
	technical account	
Procedure 3	Bilateral settlement	In highly urgent queue
	AS sends simultaneously debits and credits to PM	
	Transactions processed independently	
Procedure 4	Standard multilateral settlement	Debits are queued In highly urgent
	AS sends simultaneously debits and credits. All debits booked before credits	queue
Procedure 5	Simultaneous multilateral settlement	Not queued (if the file is not
	AS sends simultaneously debits and credits. All debits and credits are simultaneously	settled immediately, the
	checked and if ok are booked simultaneously	transactions are earmarked)
Procedure 6 integrated	-Liquidity transfer from mirror account to settlement bank RTGS account, standing	- Not queued
	orders, current orders	
	-Liquidity transfer from settlement bank RTGS account to mirror account (MT202)	- In highly urgent queue
Procedure 6 interfaced	-MT202 to sub accounts, standing orders, back transfers, current orders, liquidity	- Not queued
	adjustment transactions	
	-Settlement on sub account	- Queued, the liquidity posted in
		the sub account normally allows the settlement of the related
		operations

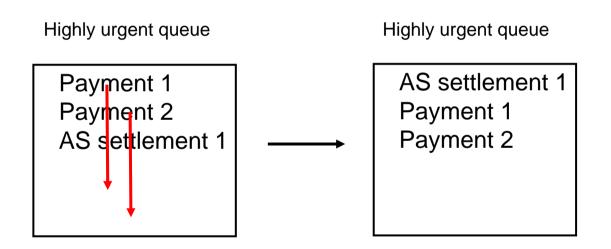








- No possibility to re-order manually the AS transactions in queue
- Re-ordering queue to allow AS settlement :



Reminder:

- AS asked to stop their XML traffic
- AS resend the FileAct and InterAct traffic already settled in Region1







