Project SchedHar | Changes on Swiss borde



We have now moved to Aarau!

Our new Address is: Swissgrid AG Bleichemattstrasse 31 Postfach 5001 Aarau





- **1** Introduction / Motivation for change / significant changes
- 2 Impact on balance group management
- **3** Implementation phases
- 4 **Project planning**
- 5 New Processes
- **6 BG qualification tests**
- 7 Next steps

Annex: detailed processes for all borders



Introduction

- During BGM User Group Meeting of 23 November 2017, we informed you about the planned changes on scheduling process
- In this webinar we wish to explain all Balance Group Managers further details
- Participants on Swissgrid side are:



Projectmanager





Responsible for BG Acceptance Tests



Responsible for BGM Partner Meeting



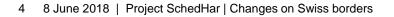
Affairs

Senior Application Specialist



Schledermann Nicolas

Responsible for BGM Expert Group





Motivation for change

- Harmonisation with majority of electrical markets
- Reduction of market entry barriers for Balance Groups
- Simplification of scheduling process
- Compliance with ENTSO-E standards
- Harmonisation of cross-border scheduling
- Greater independence from neighbouring TSO
- Increased synchronization of scheduling process with capacity allocation
- Increased operational security / redundancy
- Reduced maintenance effort
- Increased automation
- Management of future scheduling volume
- New IT technology
- Increased cybercrime



Significant changes

- Integration of Swissgrid Nomination System (SNS) functionality into Schedule Management System (SMS)
 - Merger of the "usage of long-term rights" with the "scheduling process"
 - Introduction of rights-based scheduling
- Introduction of long-term matching process
- Fixed intra-day matching cycles per border
- Secure IT connection for the market participants

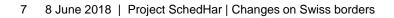




Impact on balance group management (1/4)

- Separate notification of usage of rights no longer needed as it is merged with nomination of schedules
- Introduction of rights-based TPS nomination at Swissgrid for all cross-border schedules, using
 - Process-Type A17,
 - Business-Type A03,
 - Capacity Contract Type and Capacity Agreement-ID as delivered by capacity provider

BGM have to switch the TPS nomination to "right-based resolution" for all borders (AT, DE, FR, IT) at the same time





Impact on balance group management (2/4)

- Long-term matching process with APG, RTE and Terna
 - It is no longer possible to adjust confirmed schedules of previous processes in a later process (e.g. yearly TS in DA process)
- No changes for BGs only active in Swiss internal scheduling



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Impact on balance group management (3/4)

- Currently active Balance Groups in cross-border scheduling have to verify rights-based TPS scheduling following adjusted BG qualification test procedures
 - Tests have to be coordinated with Swissgrid instead of DNV-GL
 - Test platform is still hosted by DNV-GL
- Communication with Swissgrid can be switched to a more secure channel
 - More information about this topic will be given on 22nd November 2018 during BGM Partner Meeting

Impact on balance group management (4/4)

Following table lists changes as well as respective section in technical balance group regulations where points are explained in detail

Section	Changes
1.2	Details of new CAI and CCT for cross-border trades
7	New schedule difference rules for cross-border trades
8	Capacity checks for cross-border trades
9	Introduction of long-term schedule coordination and adjustment of nomination rules at all Swiss borders
10	Adjustment of the long-term process
11	Adjustment of the day-ahead process
12	Adjustment of the intra-day process at the borders with Austria, Germany and France
13	Adjustment of the intra-day process for short-term business types at the French border
14	Adjustment of the intra-day process at the border with Italy
18	Adjustment of the time for the sending of the SRQ to Swissgrid
21	Content and structure of individual documents expanded with ANC document and various reason codes and business types for CAI and CCT
22	ANC document added for naming conventions
23	ECP added as an additional communication channel for the transfer of data
26	Reference to BG Acceptance Test document added

Revised technical balance group regulations, which enter into force when changes go live, can be found on Swissgrid website via the following link <u>Technical Balance group regulations V3.0</u>



Implementation phases

The project has following two phases

1. Harmonisation phase:

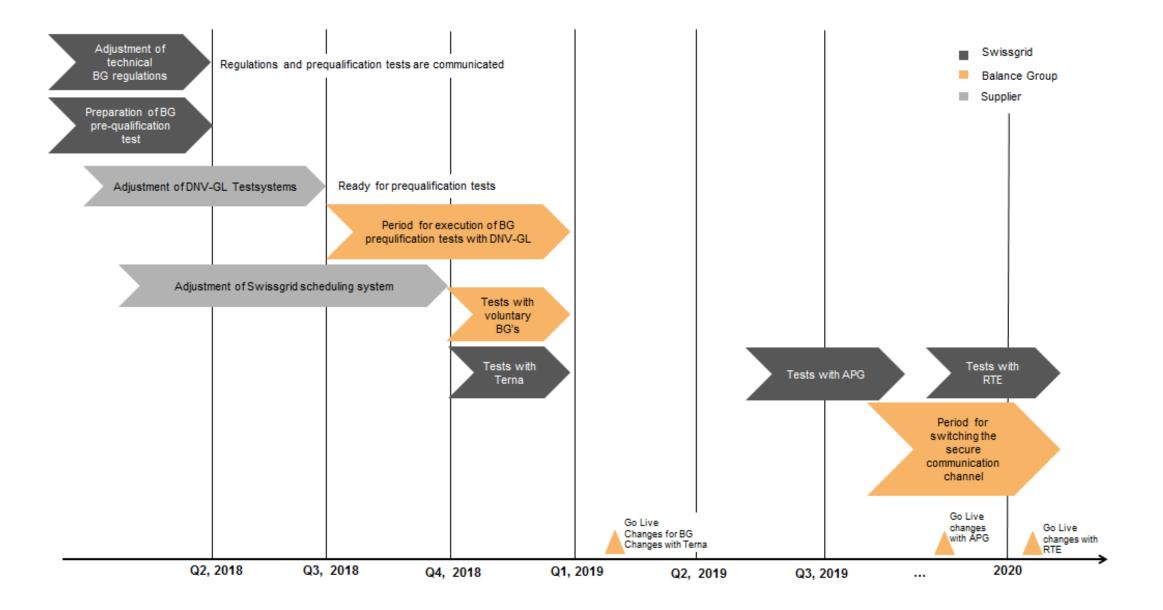
- Implementation of Swiss Nomination System (SNS) functionality in SMS
- Introduction of rights-based scheduling
- Switch to rights-based scheduling (CH-IT)
- Introduction on long-term matching (CH-IT)

2. Completion phase:

- Implementation of rights-based scheduling and long-term matching at CH-AT and CH-FR borders
- Begin migration of BG to secure connection by mid-2019



Project planning



New Processes – Synchronising processes with neighbouring TSOs

- Rights-based matching with APG, Terna and RTE
- Introduction of long-term matching with APG, Terna and RTE
- Fixed intra-day scheduling cycles with German-, Austrian- and French-TSO
- For the time being German-TSOs will not implement rights based and long-term scheduling processes
 - Match rights-based TPS with total netted schedule provided by German-TSOs

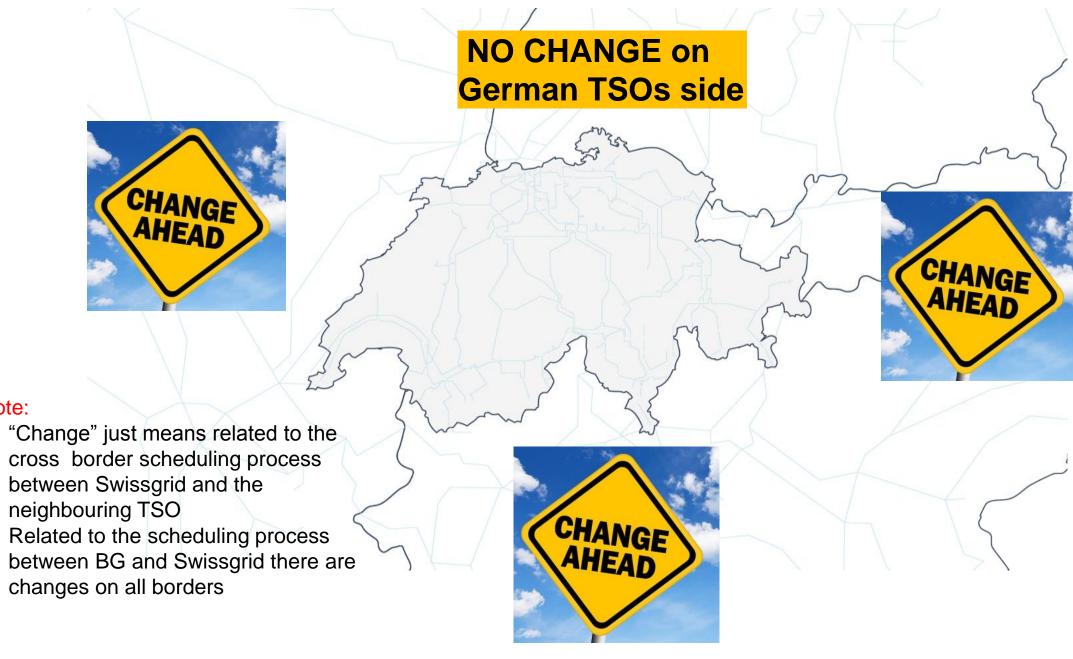
New Processes – Target scheduling process (1/7) - Introduction

On the following slides the final, rights-based scheduling process is illustrated based on the Austrian border



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New Processes – Target scheduling process (2/7) – Long Term process on all borders



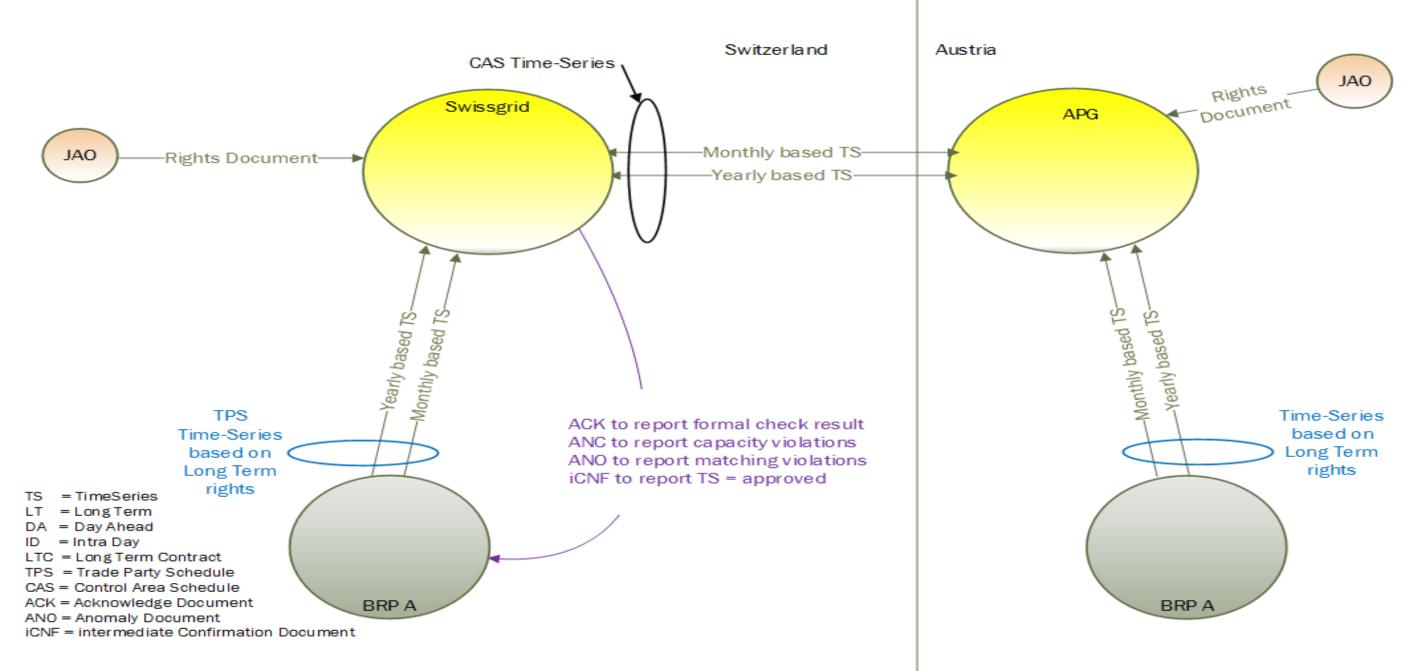
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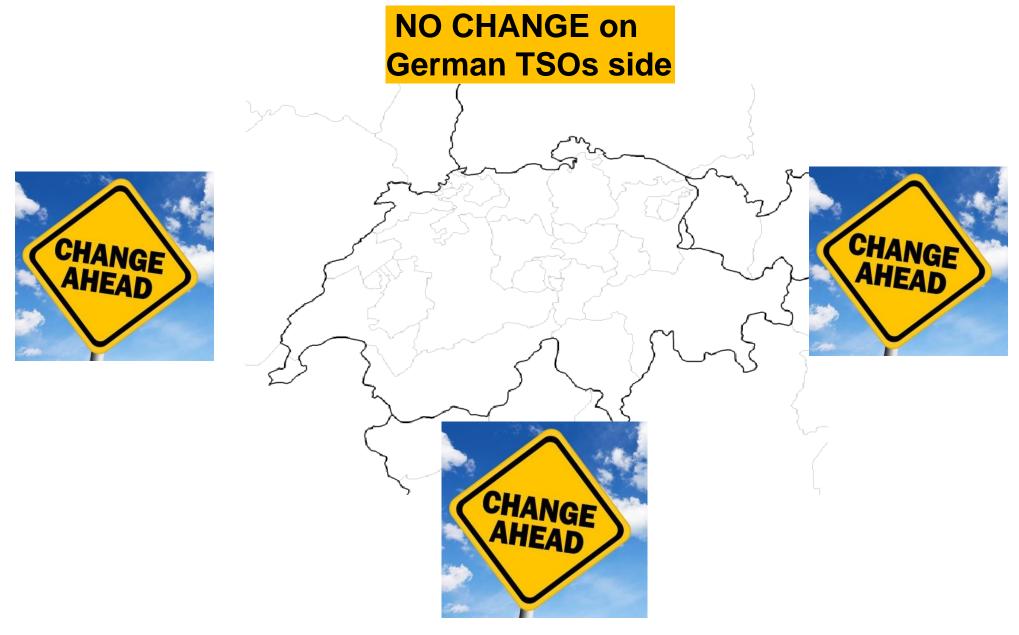
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New Processes – Target scheduling process (3/7) – Long Term process with Austria

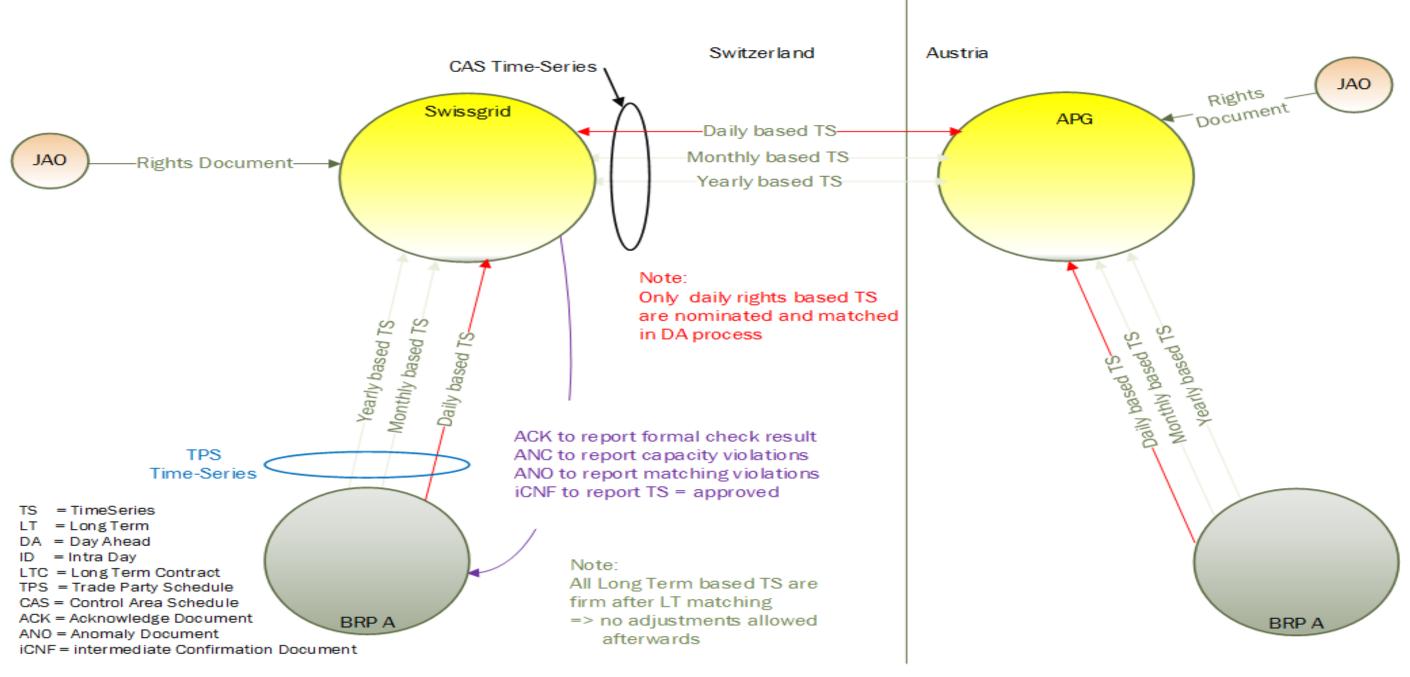


New Processes – Target scheduling process (4/7) – Day Ahead process on all borders

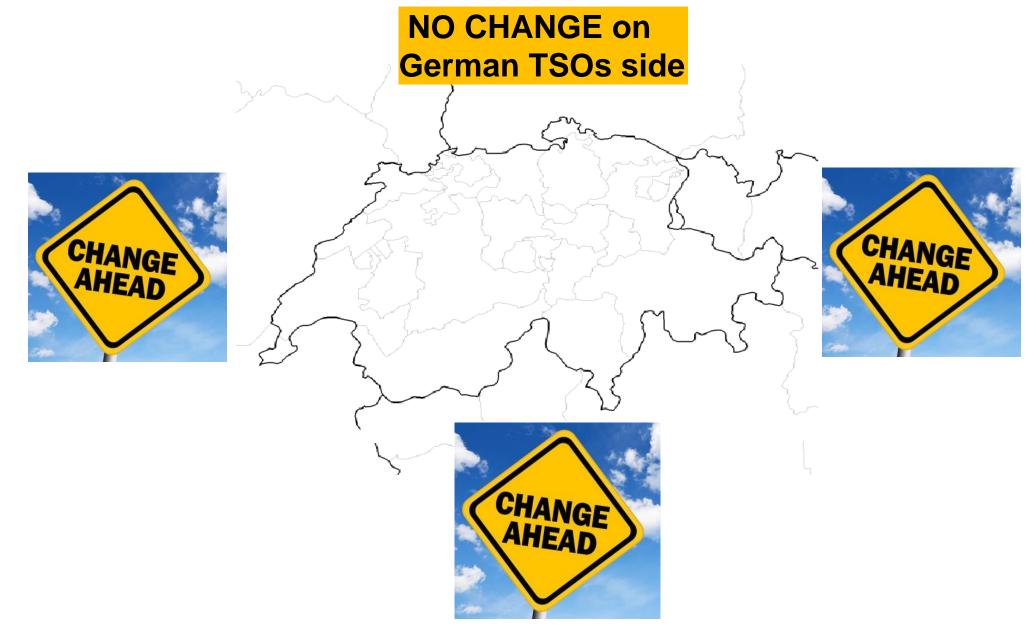


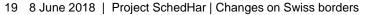


New Processes – Target scheduling process (5/7) – Day Ahead process with Austria



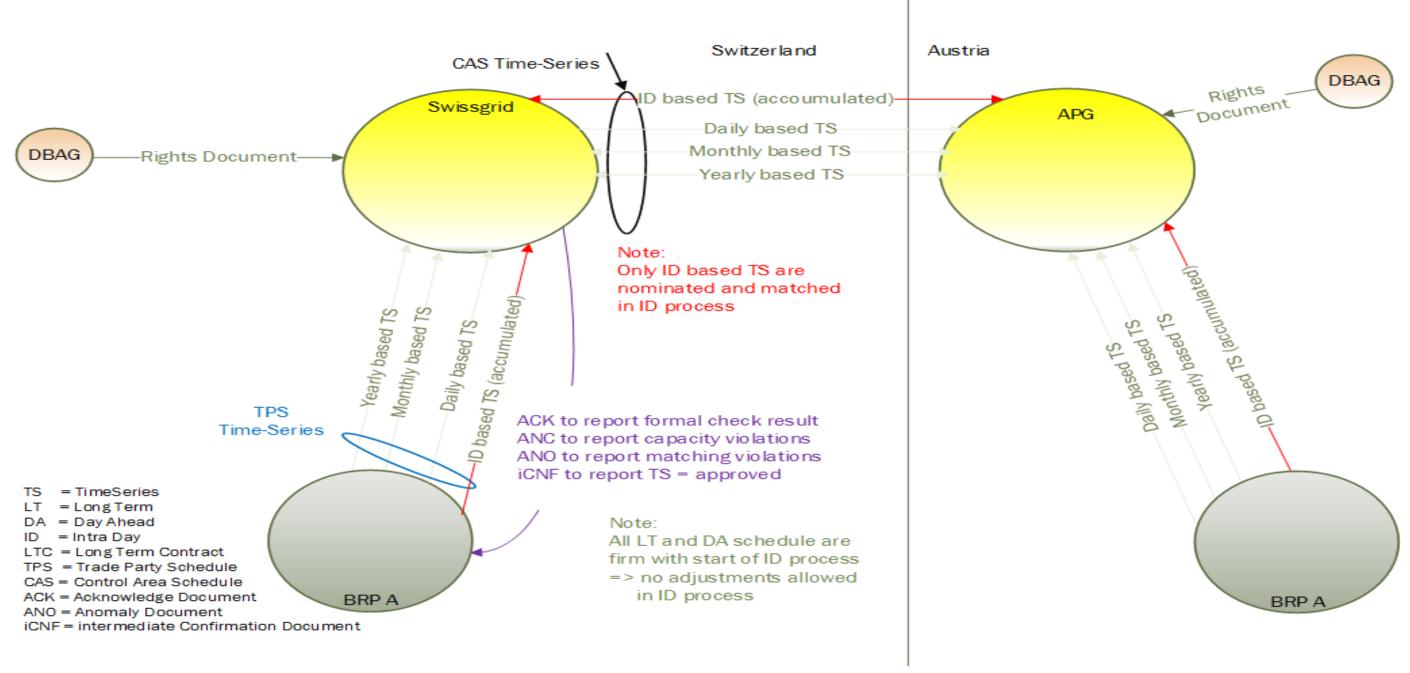
New Processes – Target scheduling process (6/7) – Intraday process on all borders







New Processes – Target scheduling process (7/7) – Intraday process with Austria



New Processes – Transition phase (1/6) - Introduction

It is not possible to implement the changes on all CH borders at the same time

- 1. Implementation and concept validation of the announced changes on CH-IT border
- 2. Switch the process for the remaining borders after a stabilisation phase
- → Transition phases for AT and FR borders: match rights-based TPS schedules with total netted, neighbouring TSO schedules



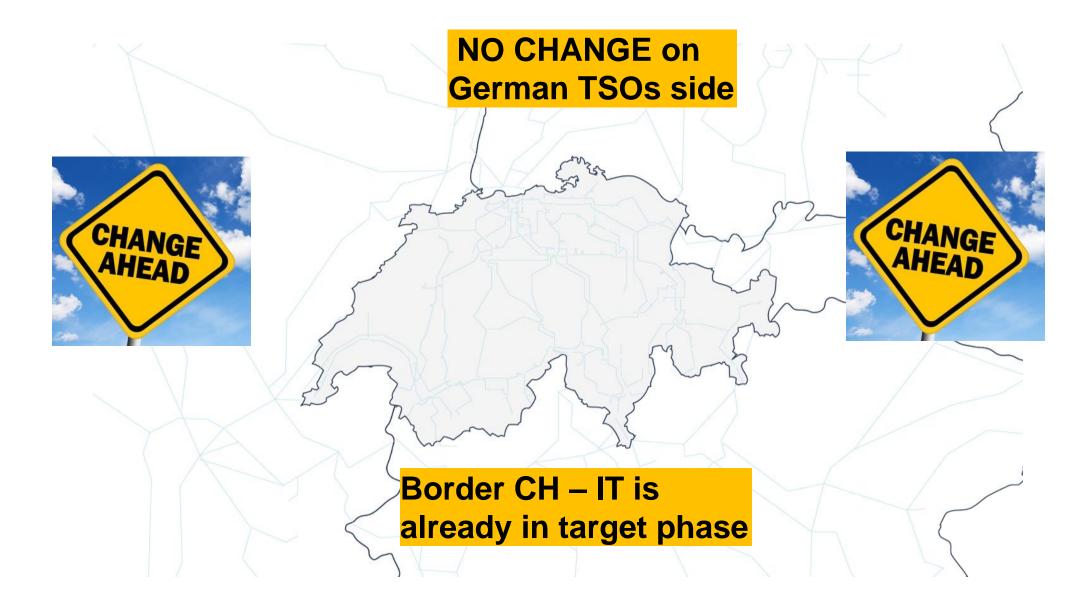
New Processes – Transition phase (2/6) - Introduction

- Transition phase with AT- and FR- is equal to final scheduling process with DE-TSOs
- Swissgrid has to match rights-based TPS with total netted TSO schedules
- Just after Go Live of rights based scheduling process in Switzerland there is no long term matching for the borders
 - CH FR,
 - CH AT
 - CH DE

On the following slides the scheduling process valid during the transition phase is illustrated based on the Austrian border

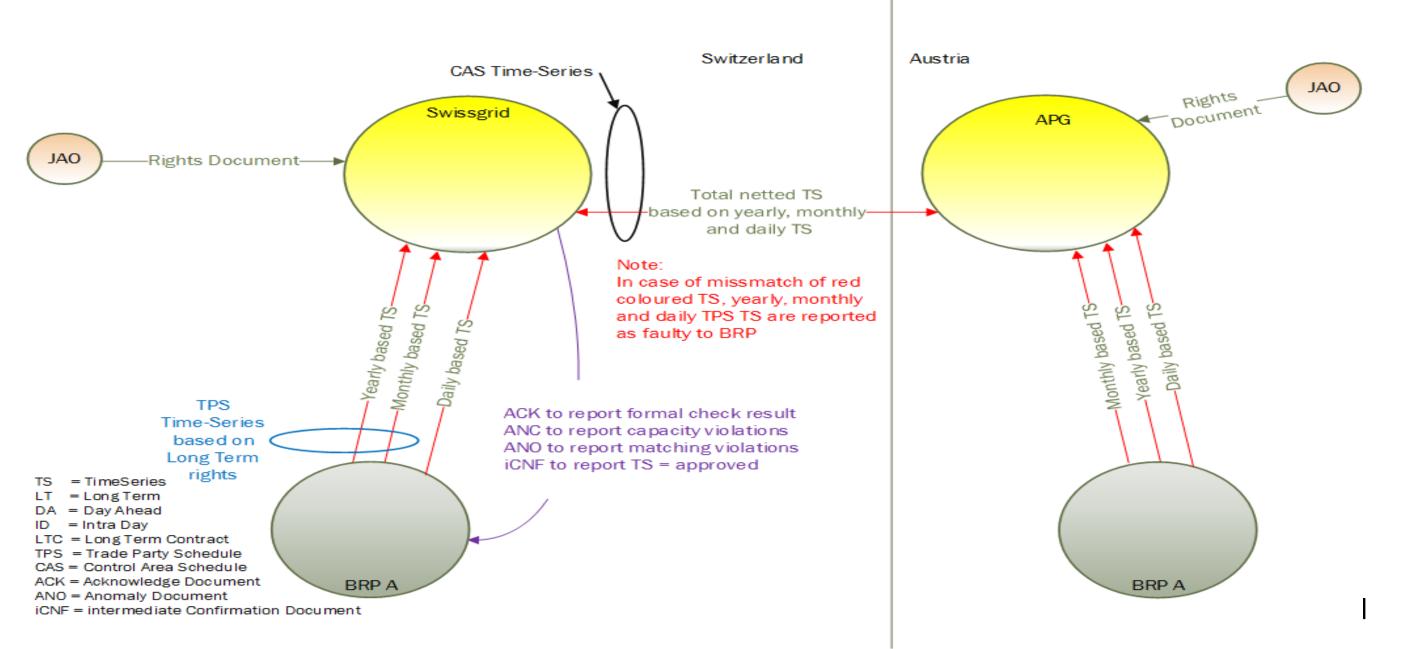


New Processes – Transition phase (3/6) – Day Ahead process for Austrian and French border

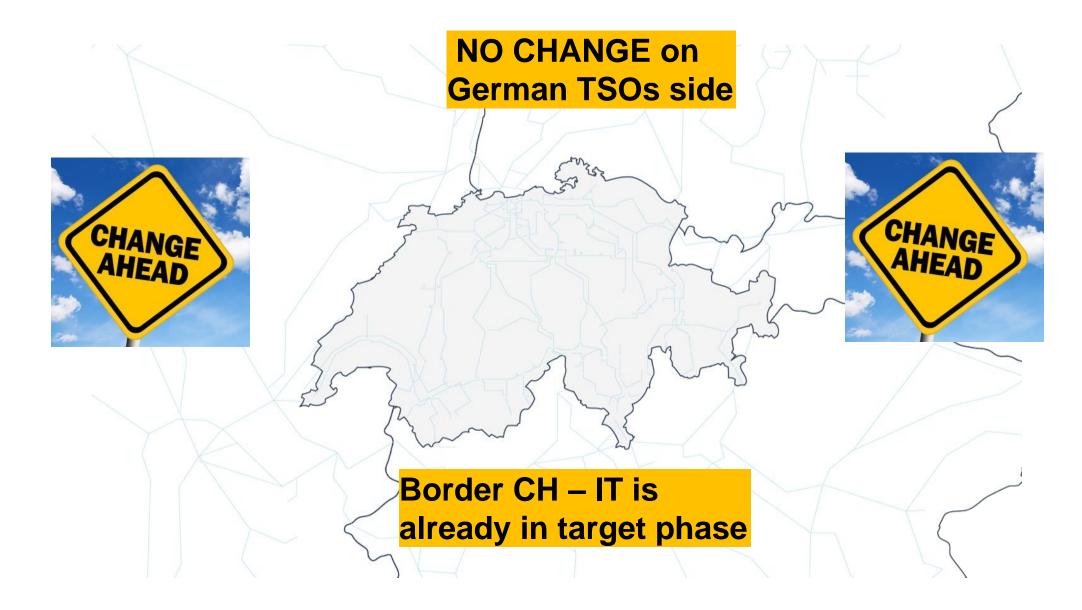




New Processes – Transition phase (4/6) – Day Ahead process with Austria

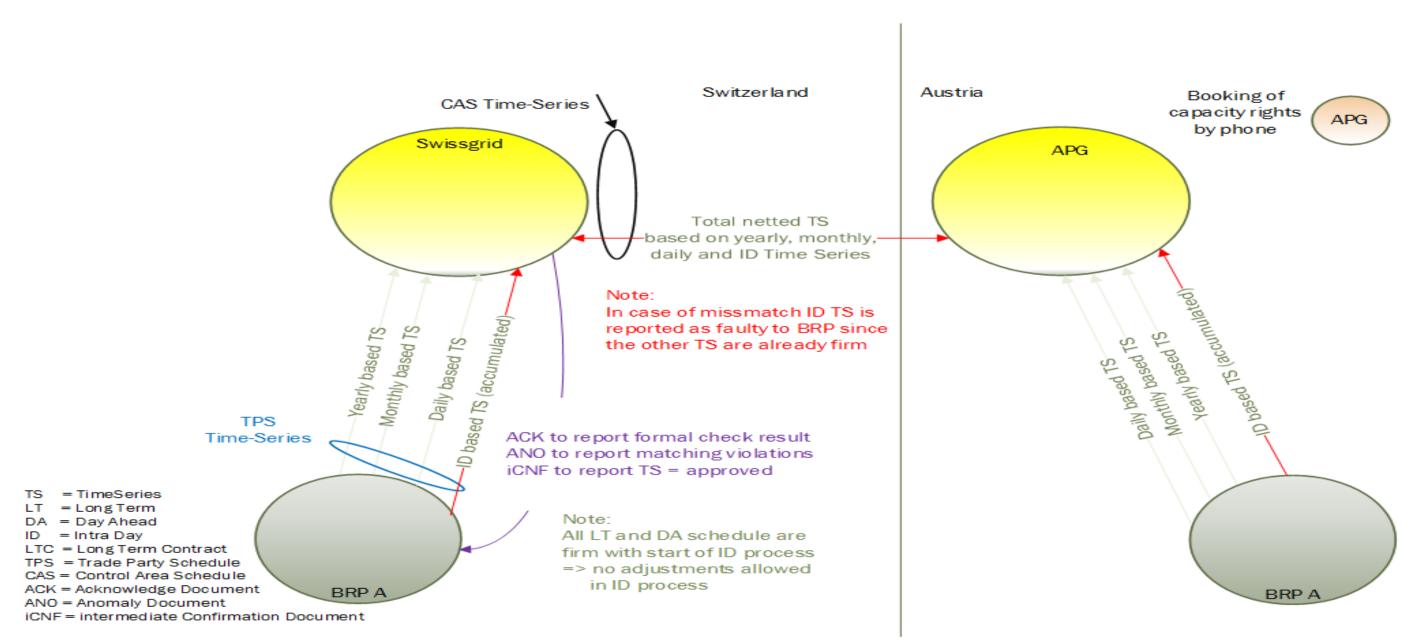


New Processes – Transition phase (5/6) – Intra Day process for Austrian and French border





New Processes – Transition phase (6/6) – Intraday process with Austria



New Processes – Impact on CH-DE scheduling

- Cross-border matching process with German-TSOs will remain on total netted schedules
- Swissgrid has to match rights-based TPS with total netted German-TSOs schedules

The impact on the matching process with German-TSOs is the same as the one for the borders AT and FR during the transition phase



New Processes – Scheduling with DE TSO's, APG and RTE during transition phase

Impact on BGs in case of a mismatch at:

- **DA-gate-closure time**: Swissgrid (SG) will report yearly-(y), monthly-(m) and daily(d) based TPS Time-Series (TS) as faulty
- **DA-Cut-Off time**: SG will breakdown the total netted neighbouring TSO value into y-, m- and d based TPS TS. Whereby the rights are exhausted in the order y, m and d

Procedure in DA if SG is asked by BG to take over TS from neighbouring TSO

→ SG will breakdown the total netted neighbouring TSO value into y-, m- and d based TPS TS. Whereby the rights are exhausted in the order y, m and d and the current nomination of BG will not be taken into account



New Processes – Breakdown of a total netted DA SAS into rights based TPS Schedules

Example for the breakdown of a

- Total netted Day-Ahead SAS Time Series into yearly, monthly and daily TPS Time Series
 - During DA Scheduling process for
 - The German border as well as for
 - The France and Austrian border during the transition phase

This may be necessary in case of

- (Still) a mismatch at Cut Off Time
- BG ask Swissgrid to take over values from neighbouring TSO

Situation	Capa in both directions avaliable Nomination in both directions			
		DE-SAS < ∑LT-rights		
yR _{DE->CH}	40	yR _{CH->DE}	20	
mR _{DE->CH}	20	mR _{CH->DE}	10	
dR _{DE->CH}	50	dR _{CH->DE}	25	
∑capa _{DE->CH}	110	∑capa _{CH->DE}	55	
At SG nominated		At SG nominated		
уТ _{DE->CH}	38	уТ _{СН->DE}	0	
mT _{DE->CH}	20	mT _{CH>DE}	0	
dT _{DE->CH}	0	dT _{CH->DE}	15	
$\sum T_{\text{DE->CH}}$	58	$\sum T_{\text{CH->DE}}$	15	
$\Sigma CH-SAS_{DE->CH}$	43	∑CH-SAS _{CH->DE}	0	
∑DE-SAS _{DE->CH}	41	∑DE-SAS _{CH->DE}	0	
to be confirmed		to be confirmed		
уТ _{DE->CH}	40	уТ _{СН->DE}	0	
mT _{DE->CH}	1	mT _{CH->DE}	0	
dT _{DE->CH}	0	dT _{CH->DE}	0	
$\sum T_{\text{DE->CH}}$	41	ΣT _{CH->DE}	0	

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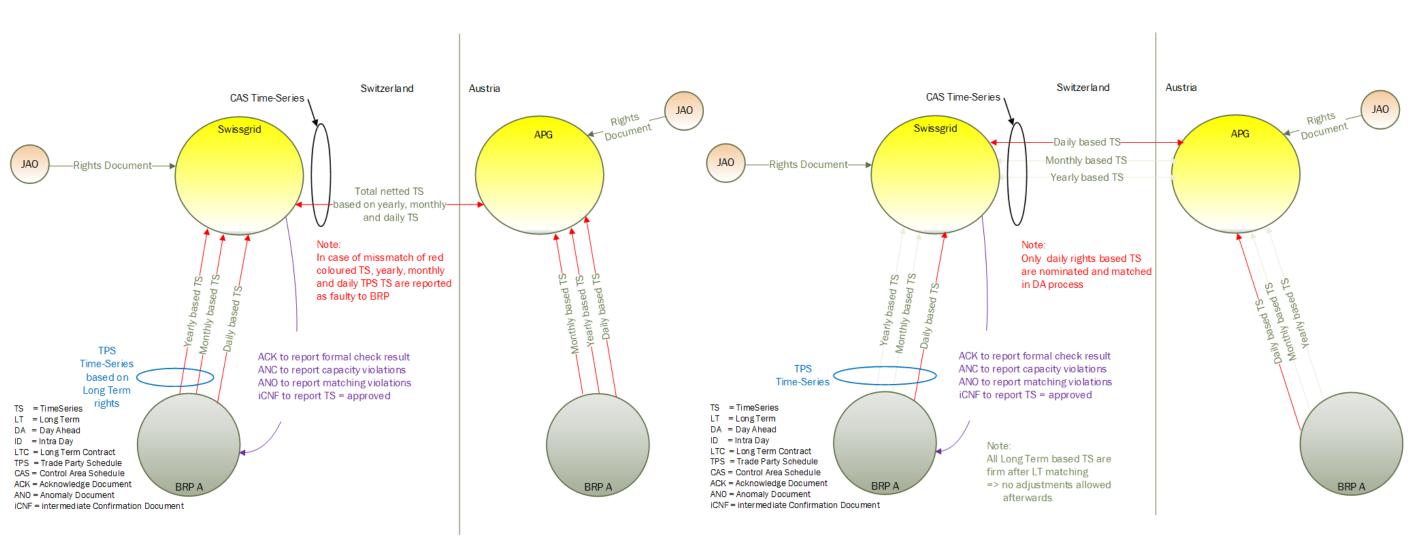
New Processes – Comparison between transition and target phase (1/5) - Introduction

There is no LT matching process during the transition-phase for following borders

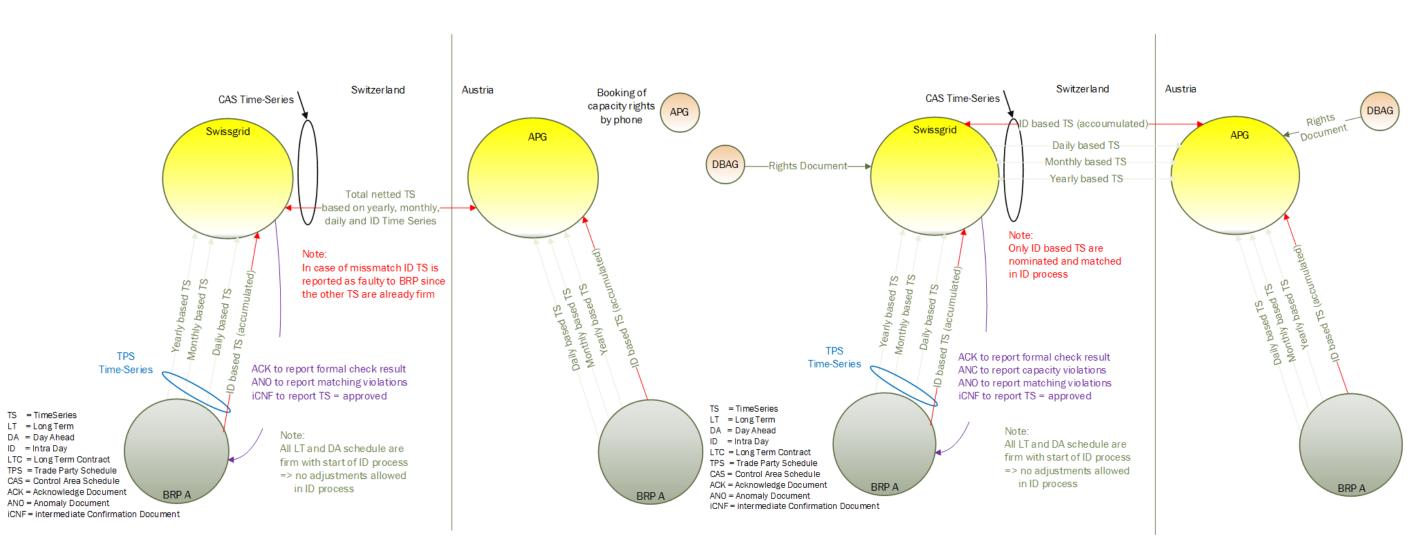
- CH AT
- CH FR

On the following slides the scheduling process valid during the transition phase is illustrated based on the Austrian border

New Processes – Comparison between transition and target phase (2/5) - Day Ahead Austrian border



New Processes – Comparison between transition and target phase (3/5) - Intraday Austrian border



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New Processes – Comparison between transition and target phase (4/5) - Austrian border

	CH – AT				
	Transitionphase	Targetphase			
Day Ahead	Rights Document from JAO.	Rights Document from JAO.			
	 Matching against total netted TS from NTSO. 	 Matching against rights based TS from NTSO. 			
	 In case of mismatch all nominated TS will be reported as faulty. 	 In case of mismatch only Daily TS will be reported as faulty. 			
Intra Day	Booking of capacity rights by telephone at APG.No Rights Document.	 Rights Document from DB AG. 			
	 Only netted time series in the rights document for validation. Even though the BRP has to send one time series for each direction. 	 Only netted time series in the rights document for validation. Even though the BRP has to send one time series for each direction. 			
	 Matching against total netted TS from NTSO. 	 Matching against rights based TS from NTSO. 			
	 In case of mismatch only ID TS will be reported as faulty. 	 In case of capacity violation only ID TS will be reported as faulty. 			



New Processes – Comparison between transition and target phase (5/5) – French border

	CH – FR				
	Transitionphase	Targetphase			
Day Ahead	Rights Document from JAO.	Rights Document from JAO.			
	 Matching against total netted TS from NTSO. 	 Matching against rights based TS from NTSO. 			
	 In case of mismatch all nominated TS will be reported as faulty. 	 In case of mismatch only adapted LT- and Daily TS will be reported as faulty. 			
Intra Day	Rights Document from DB AG.	Rights Document from DB AG.			
	 Matching against total netted TS from NTSO. 	 Matching against rights based TS from NTSO. 			
	 In case of mismatch only ID TS will be reported as faulty. 	 In case of capacity violation only ID TS will be reported as faulty. 			



New Processes – Examples of certain DA Scheduling process scenarios

BG nomination violates the daily right

уR _{AT->CH}	40	yR _{CH->AT}	20
mR _{AT->CH}		mR _{CH->AT}	10
dR _{AT->CH}		dR _{CH->AT}	25
∑capa _{AT->CH}		∑capa _{CH->AT}	55
At SG nominated		At SG nominated	
уТ _{ат->CH}		уТ _{СН->АТ}	0
mT _{AT->CH}		mT _{CH>AT}	0
dT _{AT->CH}		dT _{CH->AT}	0
∑T _{AT->CH}	105	∑T _{CH->AT}	0
SG SAS contains		SG SAS contains	
уТ _{АТ->CH}	35	уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	55	dT _{CH->AT}	0
∑CH-SAS _{AT->CH}	105	∑CH-SAS _{CH->AT}	0
APG SAS contain	S	APG SAS contains	;
уТ _{АТ->CH}	35	уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	45	dT _{CH->AT}	0
∑CH-SAS _{AT->CH}		∑CH-SAS _{CH->AT}	0
ANC for BG as so	n as	rights doc is availab	le
dT _{AT->CH}	55		
dR _{AT->CH}	50		
		atch (earliest at GC	T)
dTPS-T _{AT->CH}	55		
dSAS-T _{AT->CH}	45		

BG corrects until COT, but just respecting the rights

			í
уR _{AT->CH}		yR _{CH->AT}	20
mR _{AT->CH}	20	mR _{CH->AT}	10
dR _{AT->CH}	50	dR _{CH->AT}	25
∑capa _{AT->CH}	110	∑capa _{CH->AT}	55
At SG nominated		At SG nominated	
уТ _{АТ->CH}		уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}		dT _{CH->AT}	0
∑T _{AT->CH}	100	$\Sigma T_{CH->AT}$	0
SG SAS contains		SG SAS contains	
уТ _{АТ->CH}		уТ _{СН->АТ}	0
mT _{AT->CH}		mT _{CH>AT}	0
dT _{AT->CH}	50	dT _{CH->AT}	0
∑CH-SAS _{AT->CH}	100	∑CH-SAS _{CH->AT}	0
APG SAS contains		APG SAS contains	
уТ _{АТ->CH}		уТ _{СН->АТ}	0
mT _{AT->CH}	-	mT _{CH>AT}	0
dT _{AT->CH}	45	dT _{CH->AT}	0
∑AT-SAS _{AT->CH}	95	∑AT-SAS _{CH->AT}	0
	mism	atch (earliest at GC	Γ)
dTPS-T _{AT->CH}	50		
dSAS-T _{AT->CH}	45		
to be confirmed at			
уТ _{АТ->CH}		уТ _{СН->АТ}	0
mT _{AT->CH}		mT _{CH>AT}	0
dT _{AT->CH}	45	dT _{CH->AT}	0

BG does not correct the nomination until COT

yR _{AT->CH}	40	yR _{CH->AT}	20
mR _{AT->CH}	20	mR _{CH->AT}	10
dR _{AT->CH}	50	dR _{CH->AT}	25
∑capa _{AT->CH}	110	∑capa _{CH->AT}	55
At SG nominated		At SG nominated	
уТ _{АТ->CH}	35	уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	55	dT _{CH->AT}	0
∑T _{AT->CH}	105	∑T _{CH->AT}	0
SG SAS contains		SG SAS contains	
уТ _{АТ->CH}	35	уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	55	dT _{CH->AT}	0
∑CH-SAS _{AT->CH}	105	∑CH-SAS _{CH->AT}	0
APG SAS contains	S	APG SAS contains	
уТ _{АТ->CH}	35	уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	45	dT _{CH->AT}	0
∑AT-SAS _{AT->CH}		∑AT-SAS _{CH->AT}	0
to be confirmed at	СОТ		
уТ _{АТ->CH}		уТ _{СН->АТ}	0
mT _{AT->CH}		mT _{CH>AT}	0
dT _{AT->CH}		dT _{CH->AT}	0
	7		
/			

BG corrects in line with the APG value until COT

yR _{AT->CH}	40	yR _{CH->AT}	20
mR _{AT->CH}		mR _{CH->AT}	10
dR _{AT->CH}		dR _{CH->AT}	25
∑ сара _{АТ->СН}		∑capa _{CH->AT}	55
At SG nominated		At SG nominated	
уТ _{АТ->CH}		уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	45	dT _{CH->AT}	0
$\Sigma T_{AT->CH}$	95	$\sum T_{CH->AT}$	0
SG SAS contains		SG SAS contains	
уТ _{АТ->CH}	35	уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	45	dT _{CH->AT}	0
∑CH-SAS _{AT->CH}	95	∑CH-SAS _{CH->AT}	0
APG SAS contains		APG SAS contains	5
уТ _{АТ->CH}	35	уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	45	dT _{CH->AT}	0
∑AT-SAS _{AT->CH}	95	∑AT-SAS _{CH->AT}	0
to be confirmed			
уТ _{АТ->CH}	35	уТ _{СН->АТ}	0
mT _{AT->CH}	15	mT _{CH>AT}	0
dT _{AT->CH}	45	dT _{CH->AT}	0

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In case of mismatch at COT, lower value is implemented

BG qualification tests (1/4)

- BGM systems have to be ready for testing by September 2018
- New registration of all BG on the new DNV-GL test platform necessary expectedly from September 2018
 - Old Accounts will be deleted
- Two different sort of tests available on the test platform
 - BG tests (test scenarios for the current processes)
 - SchedHar tests (test scenarios for the future processes for rights based nominations)
 - Both type of tests are reachable via https://dnvgl-test.com
- In Switzerland already registered BG which are not active in cross border scheduling don't have to
 participate at the SchedHar qualification tests
- Tests will be completed via the DNV-GL test platform, attended by Swissgrid
 - Any business requests to <u>bg-registration@swissgrid.ch</u>

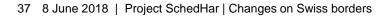


BG qualification tests (2/4)

- Scope of test is 15 mandatory and 1 optional test scenarios
 - 4 mandatory formal test scenarios (LT/DA/ID/PSA)
 - 5 mandatory continuous matching test scenarios | positive tests (LT/DA/ID/PSA)
 - 5 mandatory continuous matching test scenarios | negative tests (LT/DA/ID/PSA)
 - 1 mandatory additional matching test scenario | negative test (DA)
 - 1 optional status request procedure
- Link to the BG Acceptance test document on Swissgrid Website
 - <u>https://www.swissgrid.ch/dam/swissgrid/customers/topics/bgm/1/BG-Acceptance-Test-en.pdf</u>

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• Example for the structure of each test scenario



BG qualification tests (3/4)

Test description

5.1.2 Long-Term, formal test description

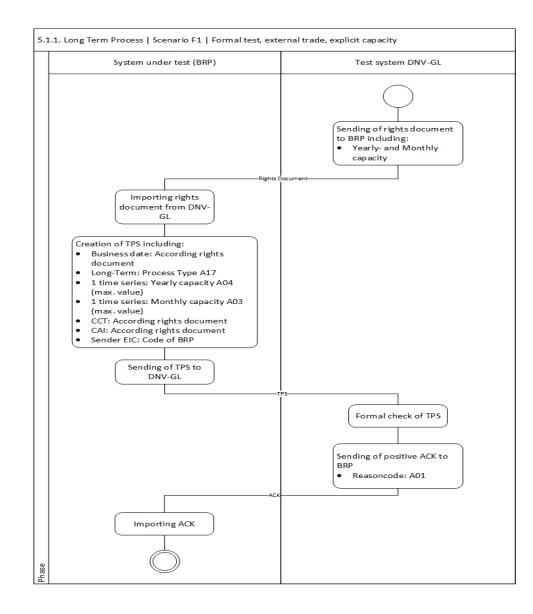
Scenario:	F1	
Execution:	for all registered BG mandatory	
Purpose:	Long-Term, formal test, external trade, explicit capacity	
Note:	Only external Long-Term time series (yearly/monthly). LTC and ML rights are not part of the tests with DNV-GL.	
Timing:	D-1 before 08:30	

#	System Under Test	DNV-GL Test System		
1		 DNV-GL sends a Rights Document including Yearly- and Monthly Capacity for the relevant business day to the BRP. (LTC and ML rights are not part of this test) 		
2	BRP sends a TPS:			
	 TPS is set up according the rights document from DNV-GL 			
	 The max. values of Yearly- and Monthly capacity have to be used 			
	Long-Term: Process type A17			
	 Number of time series according rights document with: Business type "A03" (External trade explicit capacity) 			
	 Capacity contract type: Border CH-IT: "A04" (Yearly) "A03" (Monthly) 			
	Capacity Agreement Identification: According Rights document from DNV-GL			
	Sender EIC code of BG			
3		For formally correct TPS: Sends a positive ACK message		
		Reason code A01		
	Note:The schedule message and schedule time series must have the same version number (this is verified by			
	the ESS formal test platform).			



BG qualification tests (4/4)

Sequence diagram





Next steps

- Implementation of new functionalities in BGM systems by September 2018
- Test platform will be ready in September 2018 for registration and reservation of test slots
 - For current BG tests and new SchedHar tests use the following address: https://dnvgl-test.com
 - As it is a complete new test platform every BGM has to register again
 - Swissgrid will inform all BRP as soon as the registration process is open
- Technical- & testing requests to <u>bg-registration@swissgrid.ch</u>
- BGM Partner Meeting will take place on Thursday, 22 November 2018 at the new Swissgrid head office in Aarau, there we will provide further information on the project situation

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Thank you for your attention

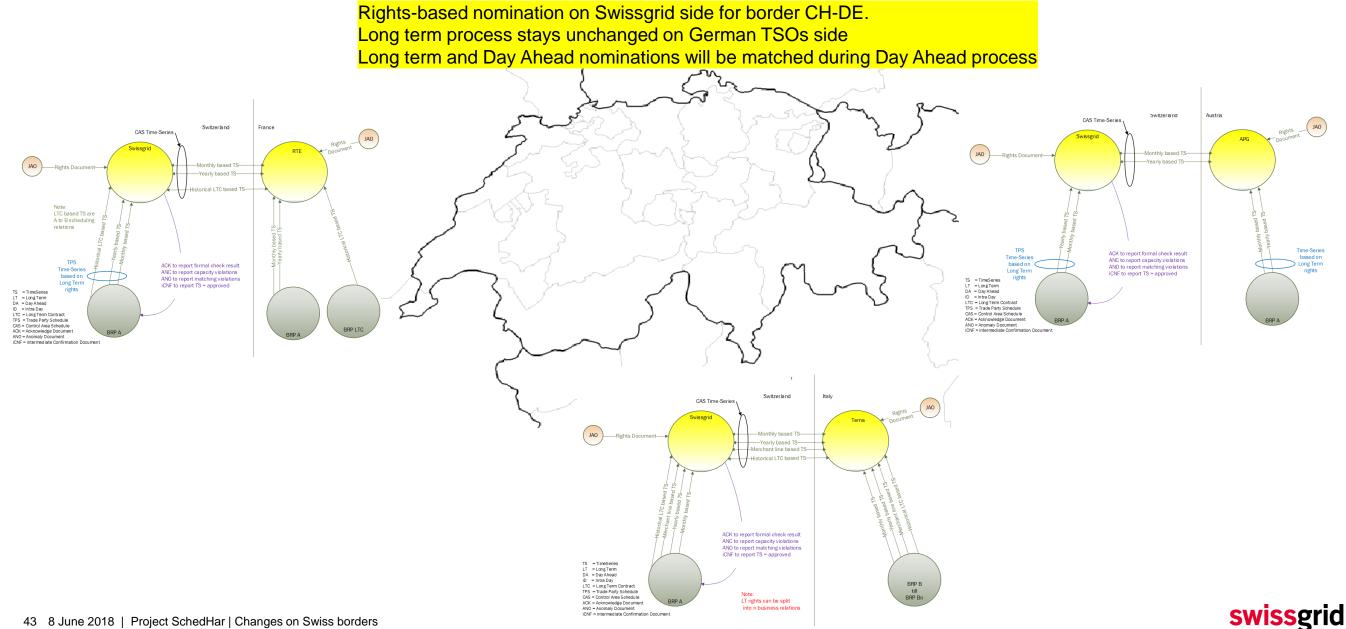
Swissgrid AG Bleichemattstrasse 31 Postfach 5001 Aarau



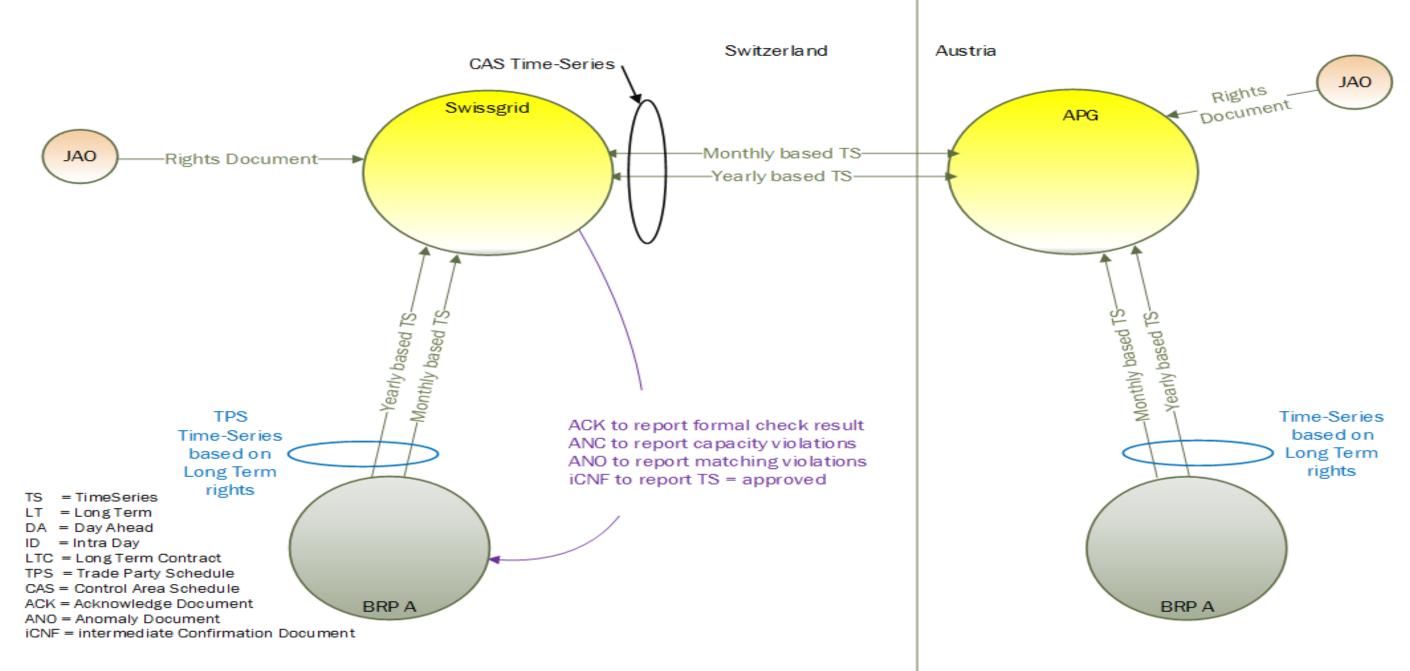
Annex: detailed processes for all borders



Targetphase – Long Term process on all borders (1/4) - Introduction

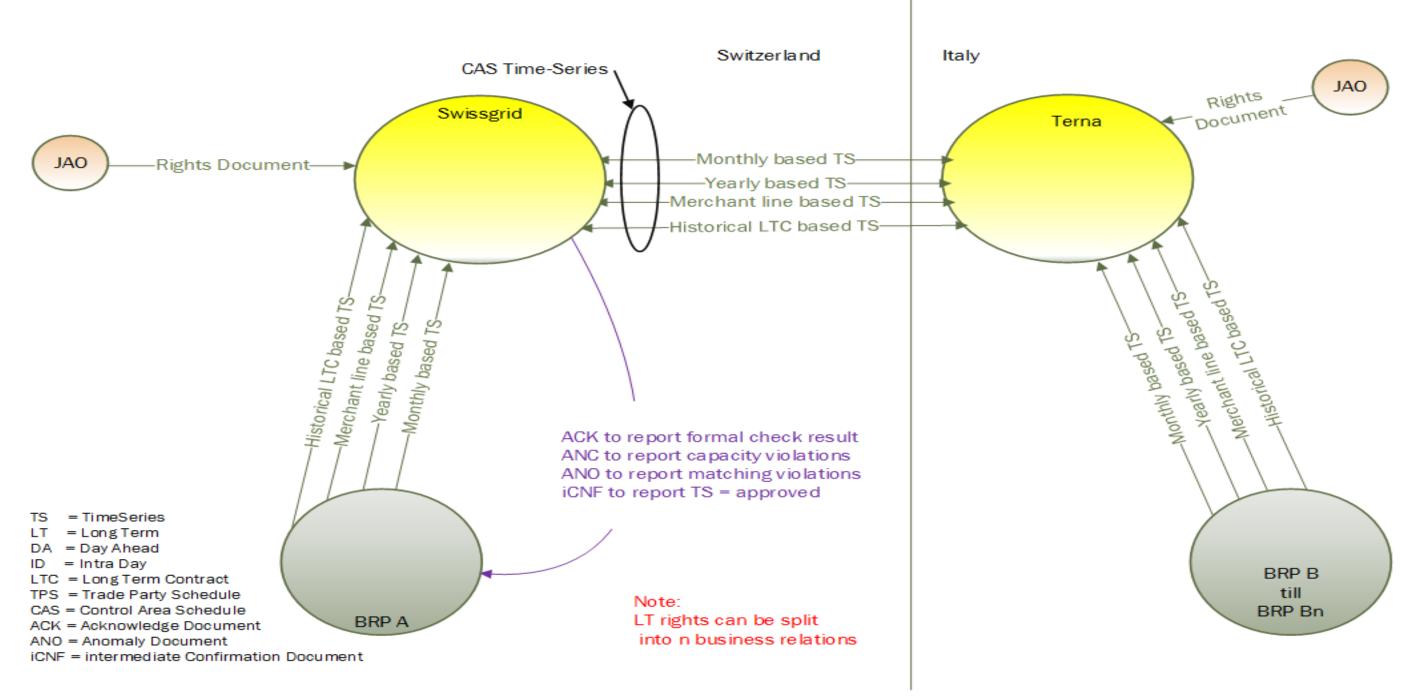


Targetphase – Long Term process on all borders (2/4) – Austria



Targetphase – Long Term process on all borders (3/4) – France Switzerland France CAS Time-Series JAO Rights Document Swissgrid RTE -Monthly based TS-JAO -Rights Document--Yearly based TS--Historical LTC based TS-Note: -Historical LTC based TS-LTC based TS are -Historical LTC based TS-A to B scheduling -Monthly based TS--Yearly based TSrelations Monthly based TS Yearly based TS TPS ACK to report formal check result Time-Series ANC to report capacity violations based on ANO to report matching violations Long Term iCNF to report TS = approved rights = TimeSeries TS = Long Term LT DA = Day Ahead ID = Intra Day LTC = Long Term Contract TPS = Trade Party Schedule CAS = Control Area Schedule BRP LTC ACK = Acknowledge Document BRP A BRP A ANO = Anomaly Document iCNF = intermediate Confirmation Document

Targetphase – Long Term process on all borders (4/4) – Italy



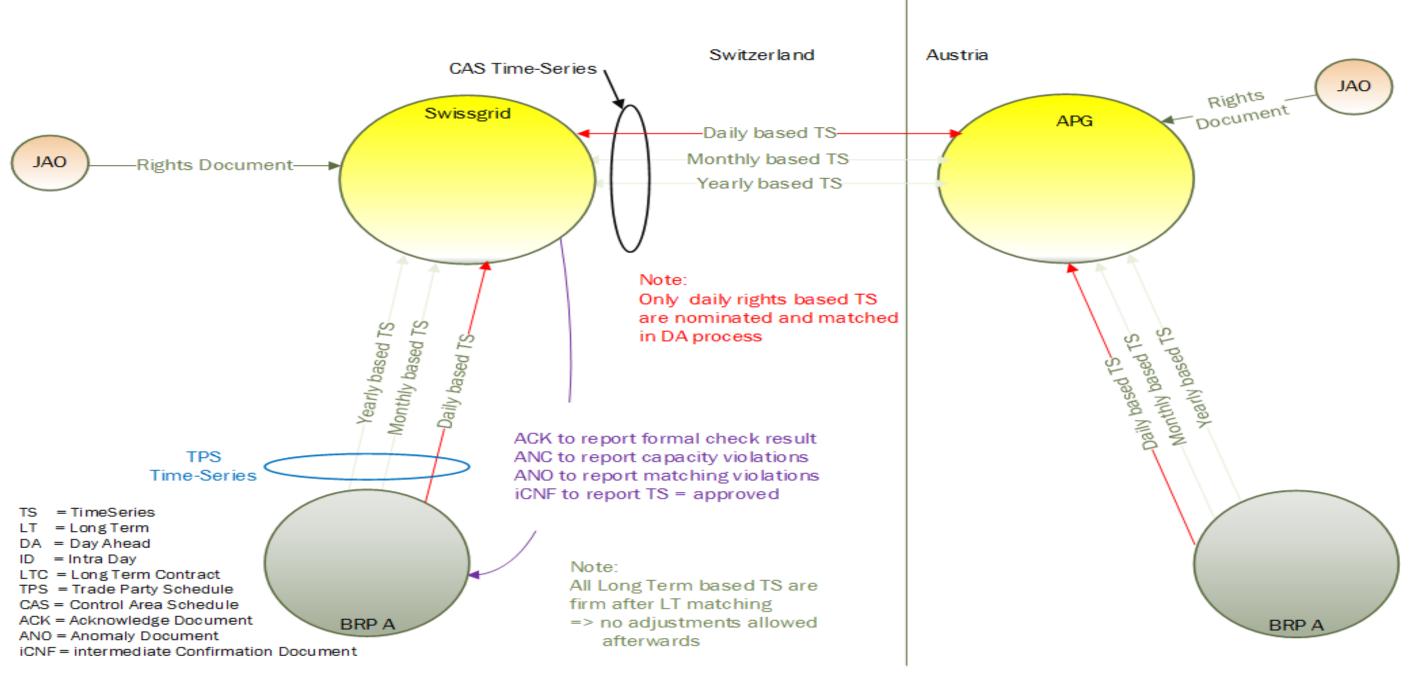
Switzerland Germany CAS Time-Series JAO DA on Long term process remains TnBW Ampric JAO unchanged on German TSOs side Total netted TS and daily TS In case of missmatch of red coloured TS, yearly, monthly and daily TPS TS are reported as faulty to BRP Switzerland Austria JAO TPS CAS Time-Series ACK to report formal check result Time-Series based on Long Term ANC to report capacity violations Rights ANO to report matching violations iCNF to report TS = approved Daily based TS rights TS = TimeSeries rights LT = LongTerm DA = DayAhead ID = Intra Day LTC = LongTerm Contract TPS = Trade Party Schedule Monthly based TS Yearly based TS Switzerland France CAS document JAO CAS = Control Area Schedule ACK = Acknowledge Documen RTE ANO = Anomaly Document Daily based TSiCNF = intermediate Confirmal Only daily rights based TS (JAO) Monthly based TS are nominated and matched in DA process Yearly based TS LTC based TS values orical LTC based TS can only be lowered DA process Only LTC and daily based TS ACK to report formal check result are nominated and matched TPS ANC to report capacity violations in DA process Time-Serie ANO to report matching violations TS = TimeSeries LT = Long Term OA = Day Ahad ID = Inita Day LT = Long Term Contract ID = Long Term Contract ITP = Trade Party Schedule ACH = Acknowledge Document ICNF = intermediate Confirmation Document iCNF to report TS = approved Note: TPS Time-Series based on All Long Term based TS are firm after LT matching => no adjustments allowed ACK to report formal check result ANC to report capacity violations ANO to report matching violations Long Term rights iCNF to report TS = approved afterwards Tis – TimeSenes – rights LT – Long Term DA – Day Ahad ID – Inita Day LT – Long Term DA – Day Ahad ID – Inita Day LT – Long Term Contract LT – Long Term Contract LT – Long Term Contract LT – Acknowledge Document ADI – Acknowledge Document ICNF – Intermediate Confirmation Document Yearly and monthly based TS are firm after LT matching => no adjustments allowed BRP afterwards Switzerland Italy CAS Time-Series (JAO Daily based TS-(JAO Monthly based TS-Yearly based TS chant line based TS torical LTC based TS Only daily rights based TS are nominated and matched in DA process ACK to report formal check result TPS ANC to report capacity violations ANO to report matching violations Time-Serie: TS = TimeSeries LT - Long Term DA - Day Ahead D = Inita Day LT - Long Term Contract TPS - Trade Party Schedule CAS - Control Neas Schedule ACN - Akinowidge Document ICNF = Intermediate Confirmation Document iCNF to report TS = approved Note: All Long Term based TS are firm after LT matching => no adjustments allowed afterwards

Targetphase – Day Ahead process on all borders (1/5) - Introduction

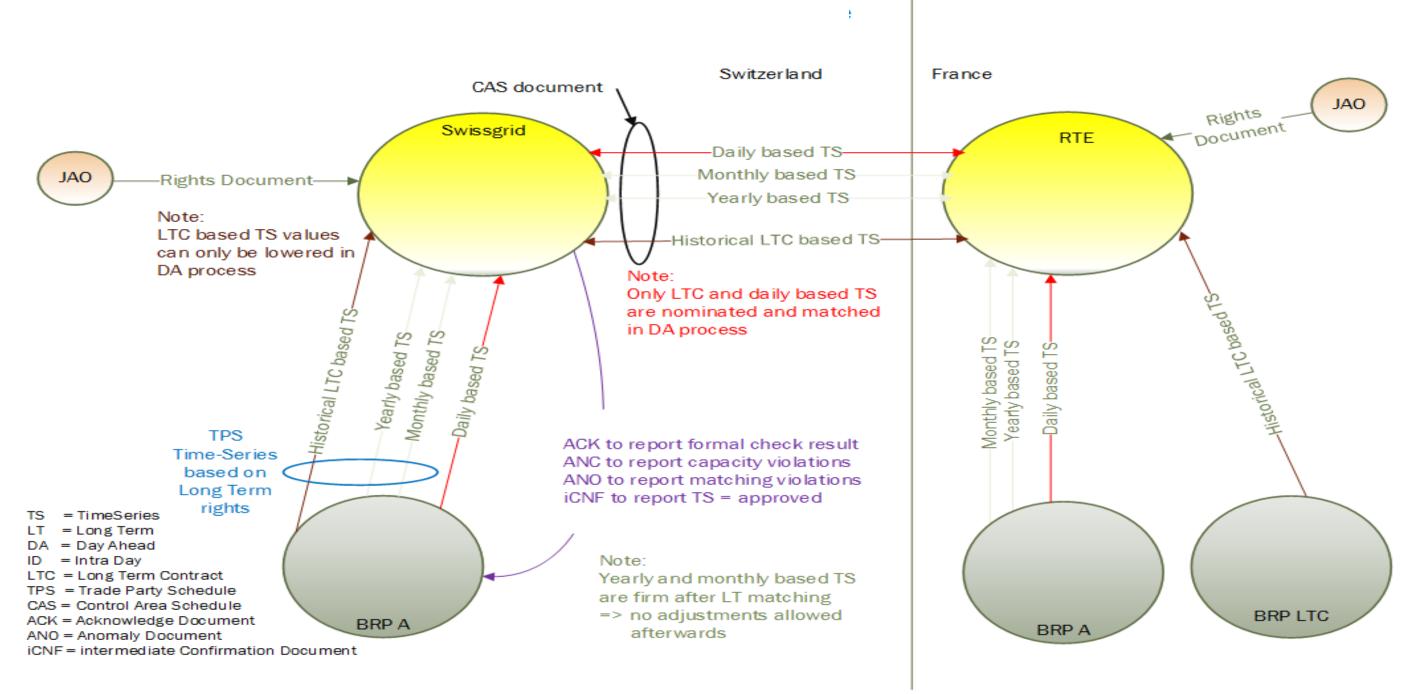
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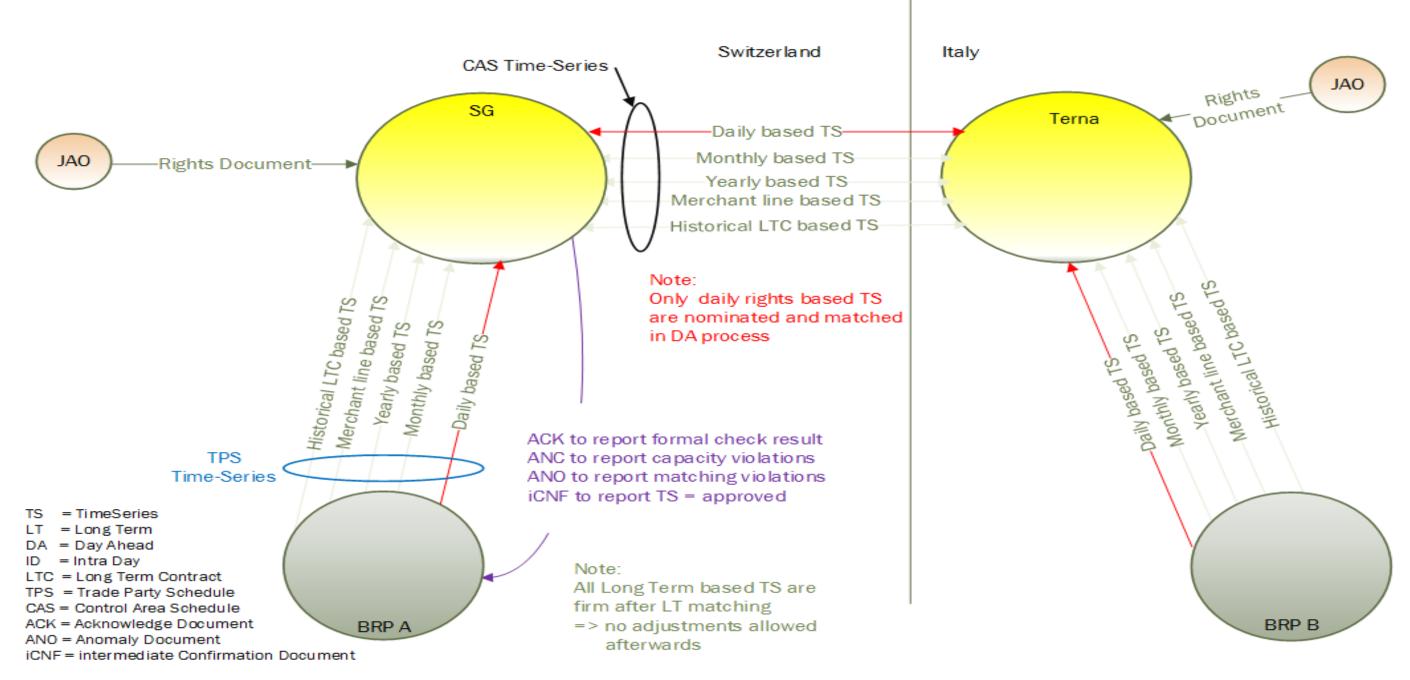
Targetphase – Day Ahead process on all borders (2/5) – Austria



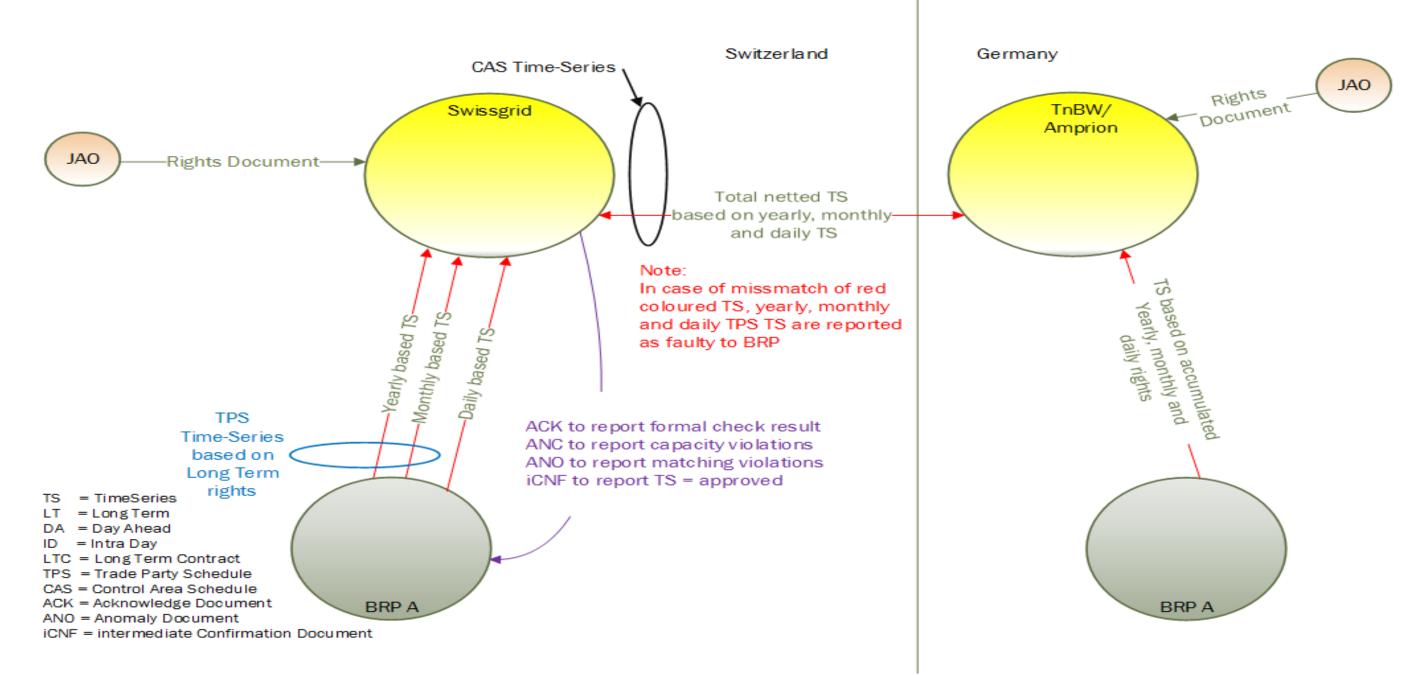
Targetphase – Day Ahead process on all borders (3/5) – France

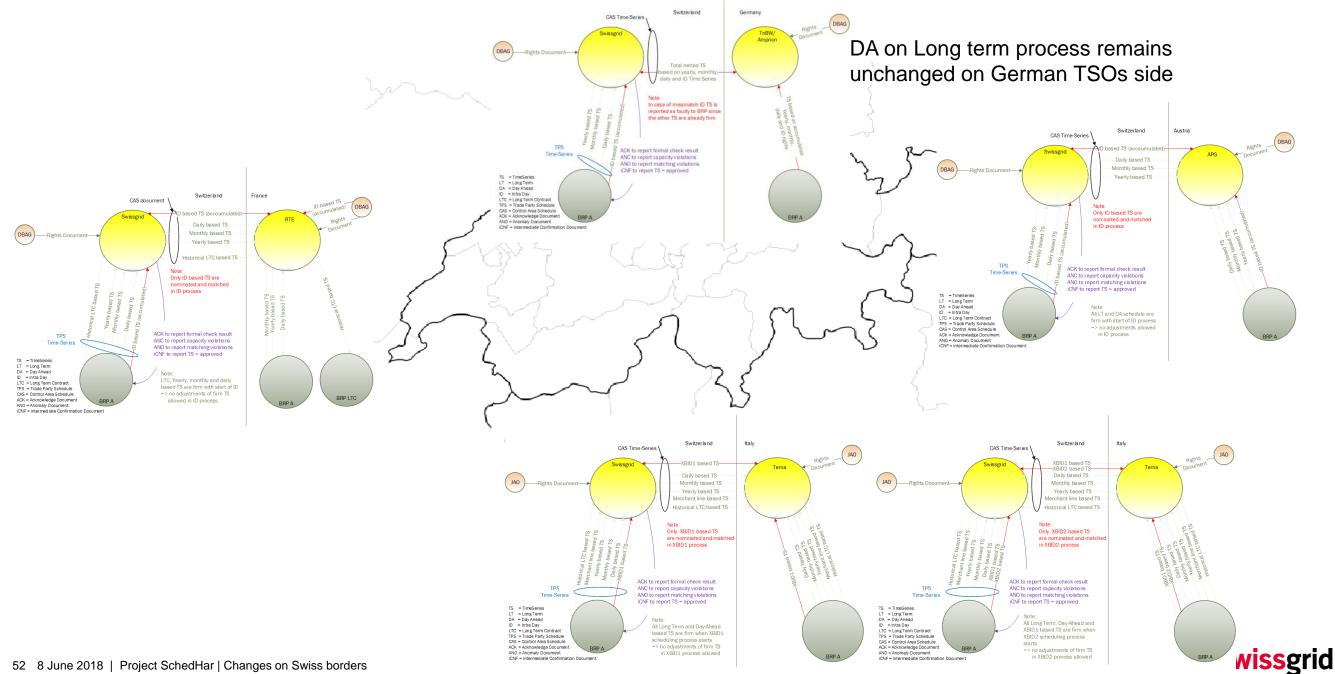


Targetphase – Day Ahead process on all borders (4/5) – Italy



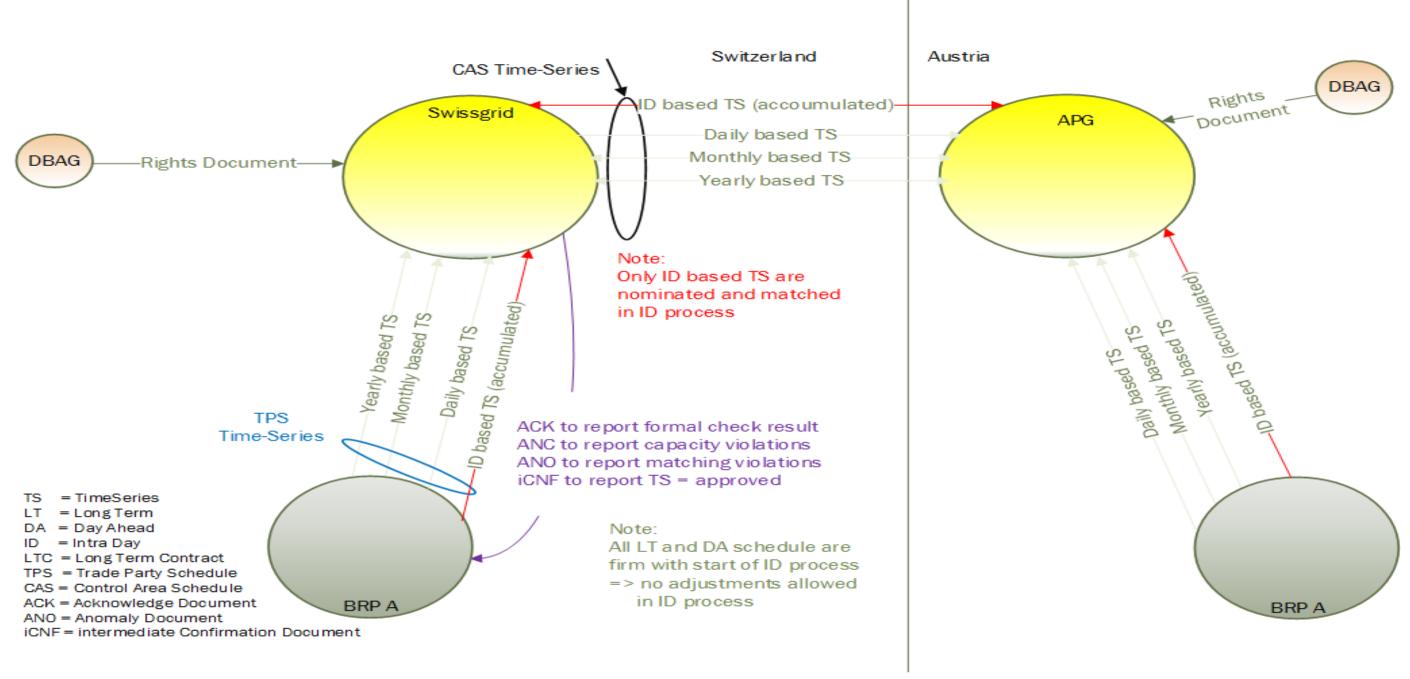
Targetphase – Day Ahead process on all borders (5/5) – Germany



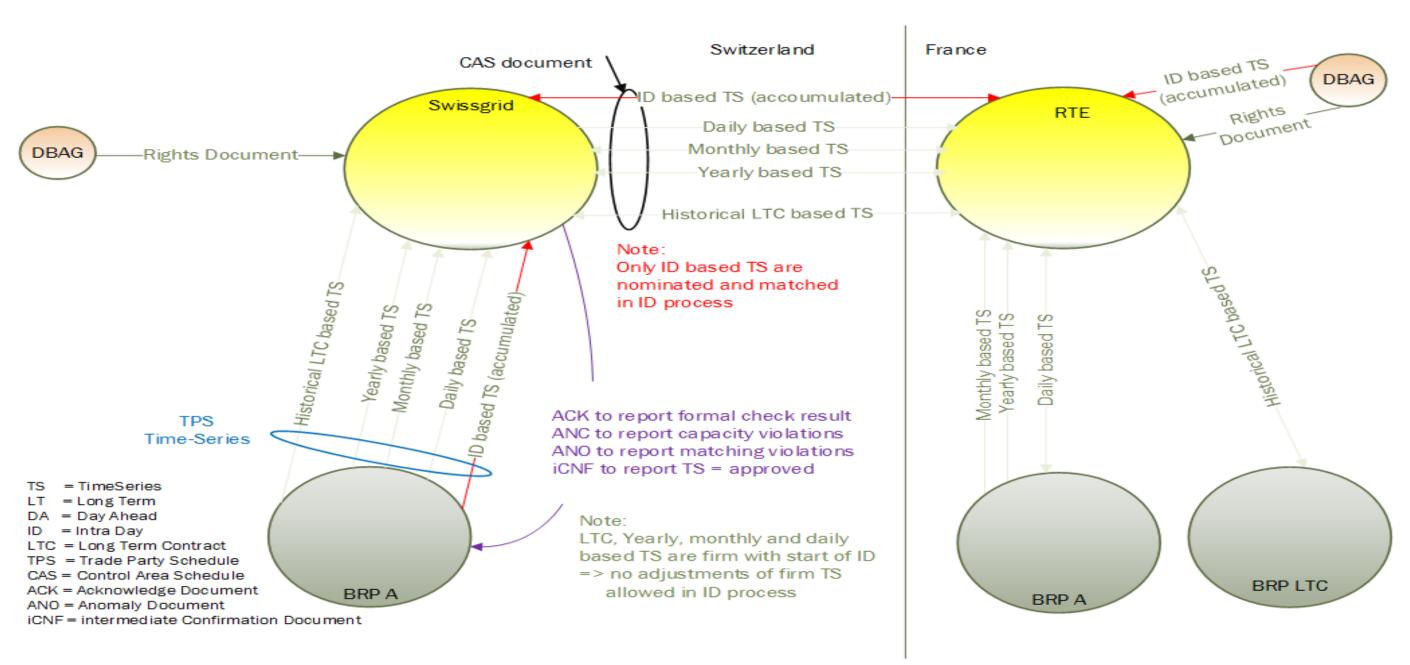


Targetphase – Intraday process on all borders (1/6) - Introduction

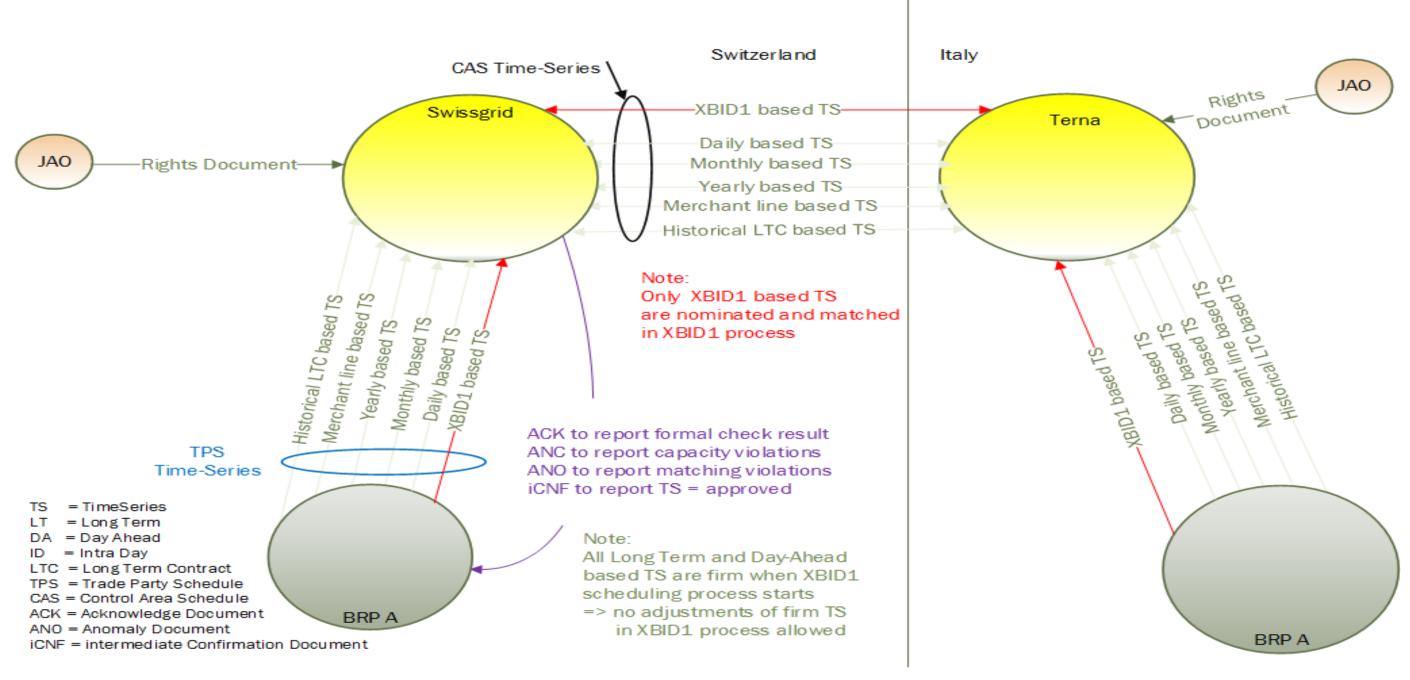
Targetphase – Intraday process on all borders (2/6) - Austria



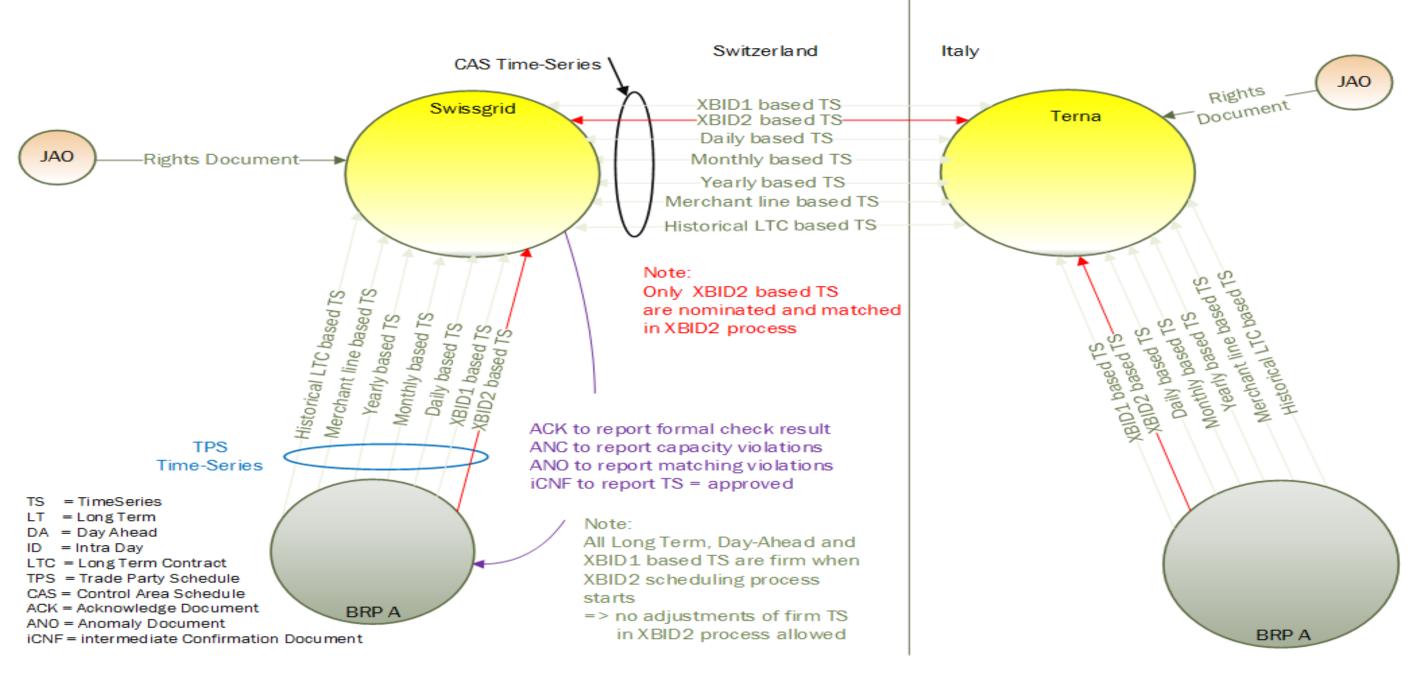
Targetphase – Intraday process on all borders (3/6) - France



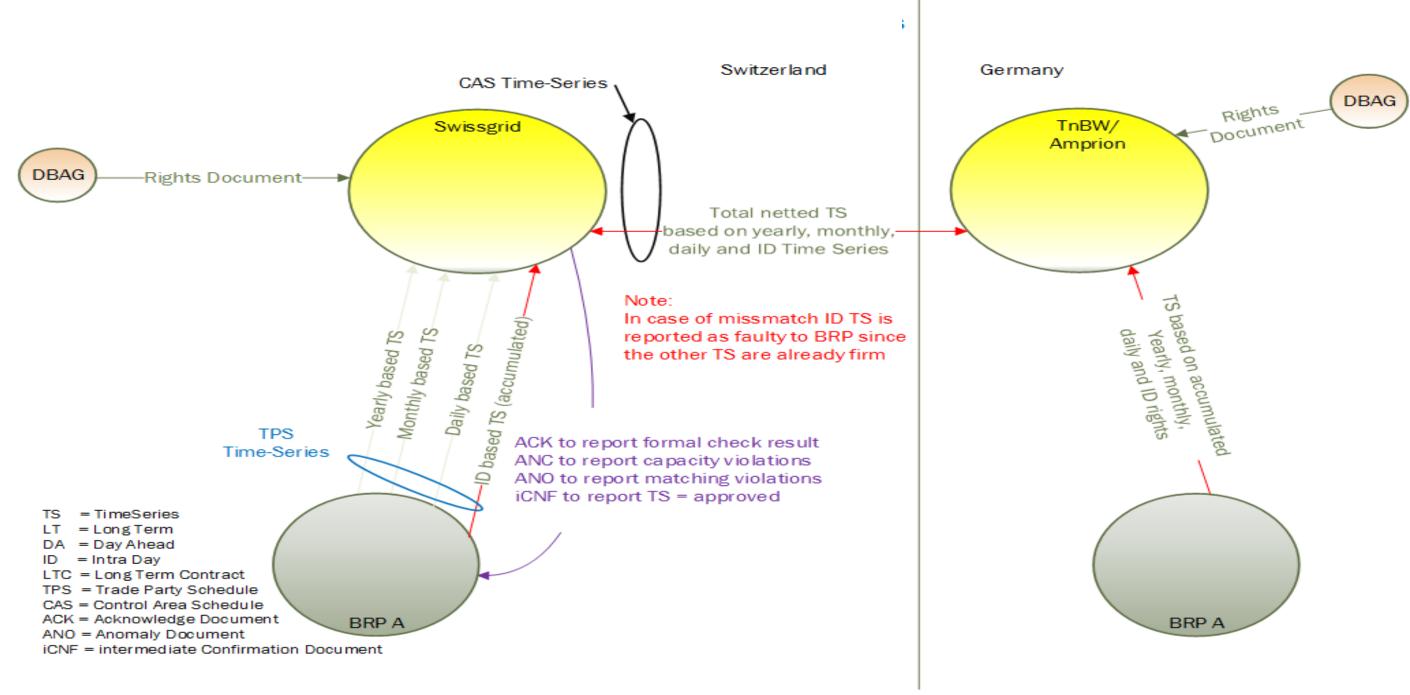
Targetphase – Intraday process on all borders (4/6) – Italy, XBID 1



Targetphase – Intraday process on all borders (4/6) – Italy, XBID 2



Targetphase – Intraday process on all borders (4/6) – Germany

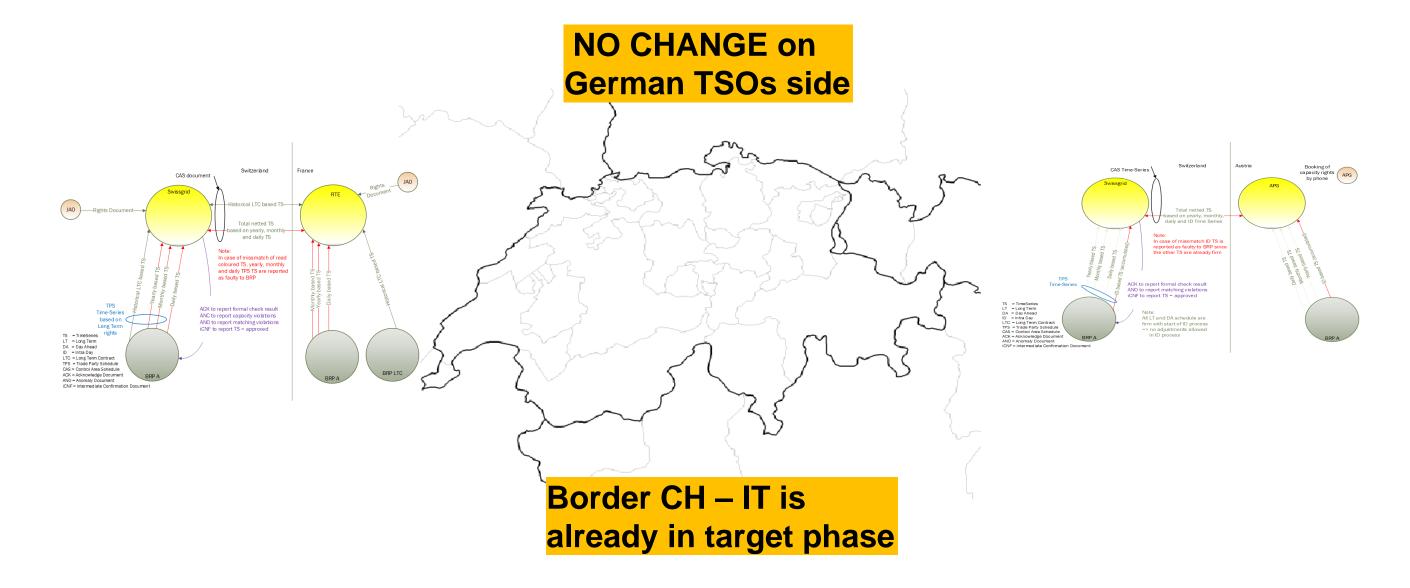


Transitionphase – Long Term process

- After Go Live of first border CH IT there is an transition phase for the Long term processes on the other CH borders
 - No Long term matching on following borders
 - CH FR
 - CH AT
 - CH DE

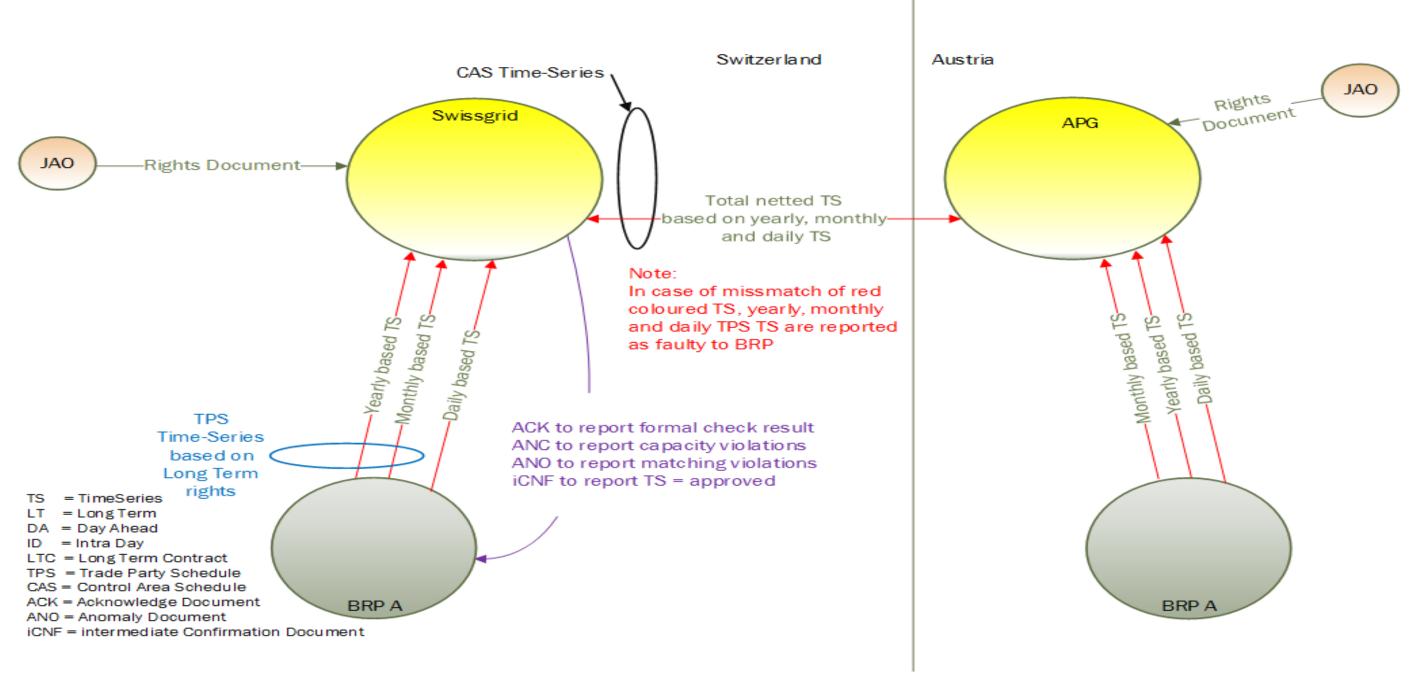


Transitionphase – Day Ahead process on all borders (1/3) - Introduction

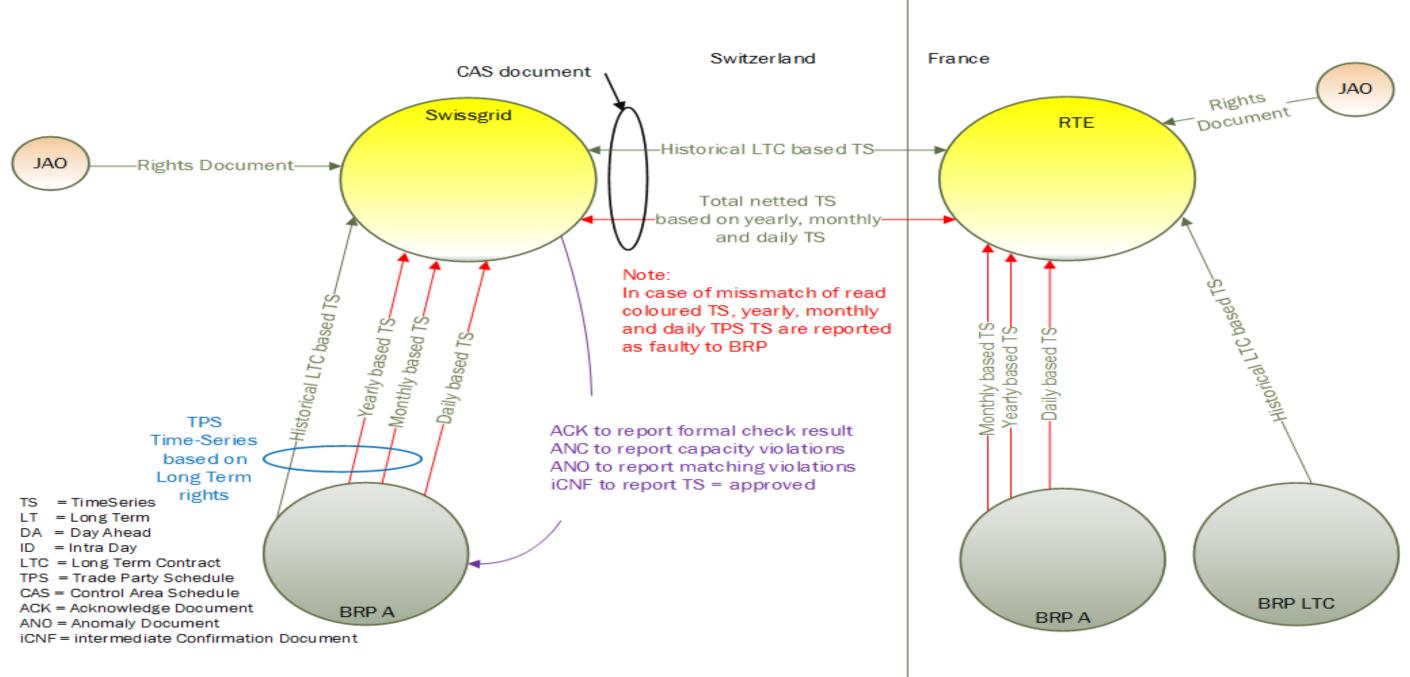




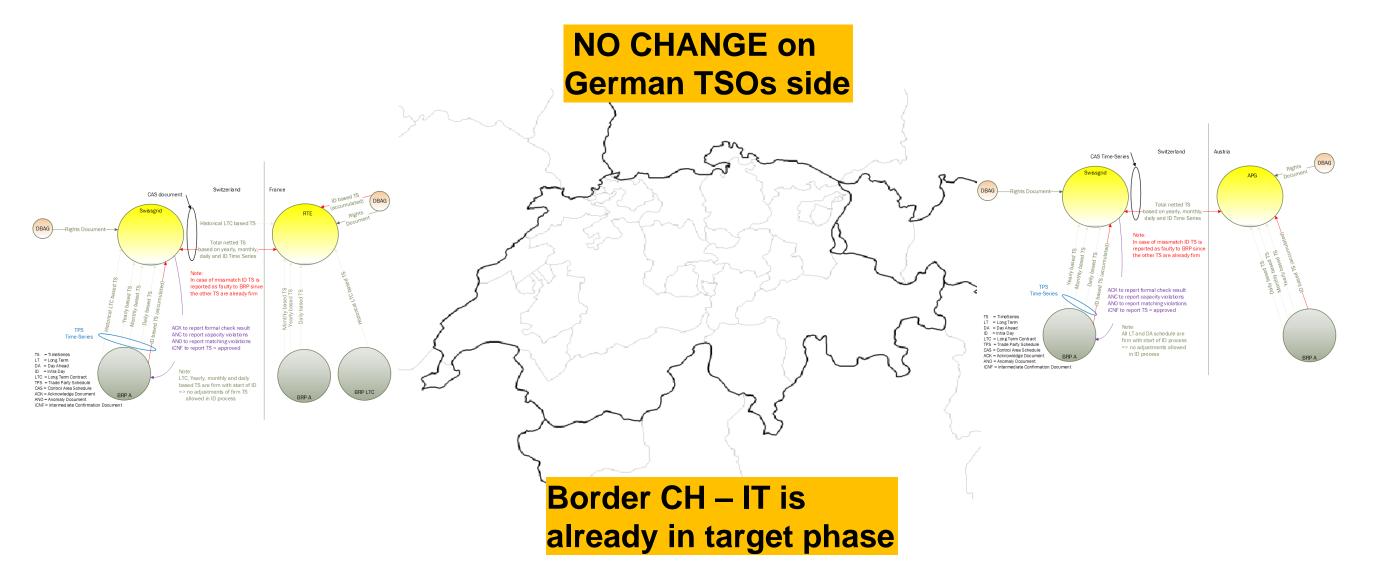
Transitionphase – Day Ahead process on all borders (2/3) - Austria

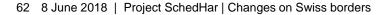


Transitionphase – Day Ahead process on all borders (3/3) - France



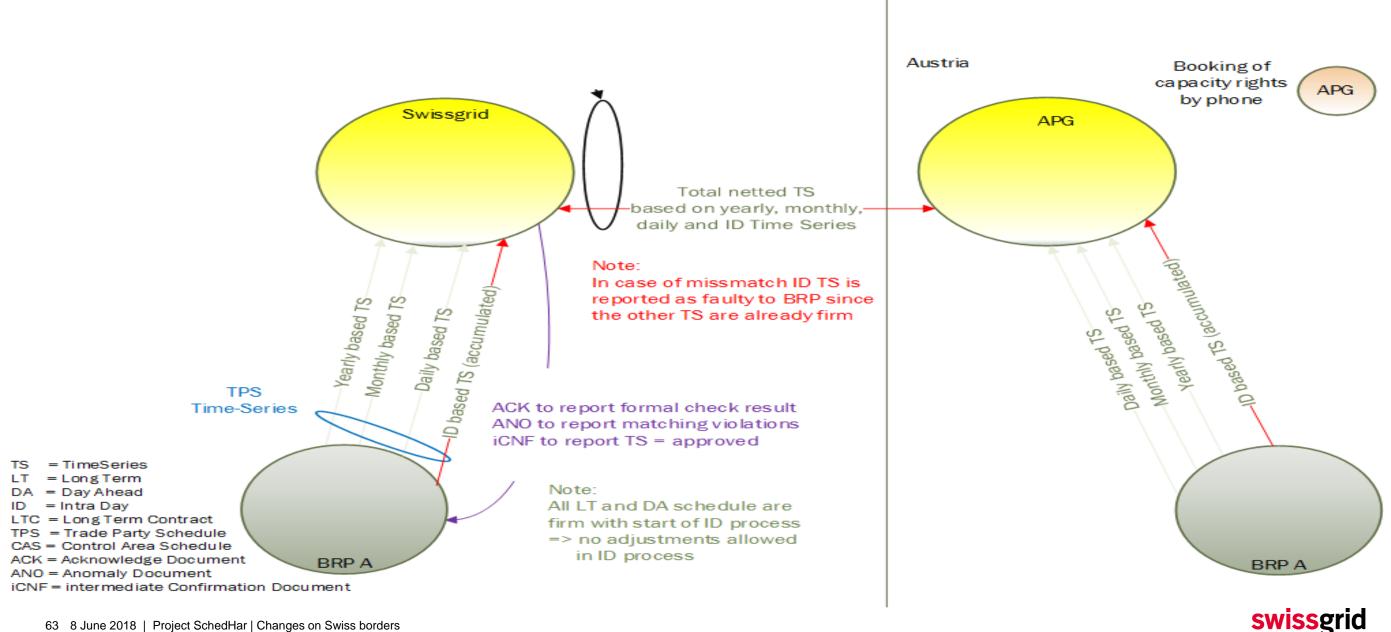
Transitionphase – Intra Day process on all borders (1/3) - Introduction



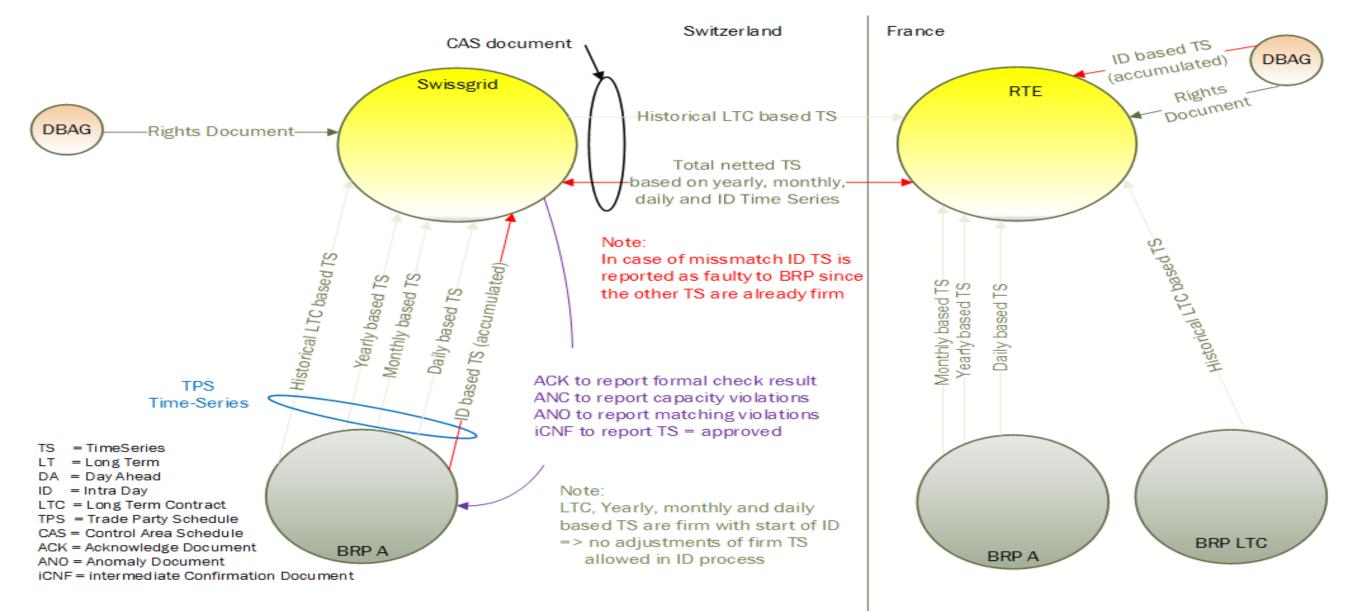




Transitionphase – Intra Day process on all borders (2/3) - Austria



Transitionphase – Intra Day process on all borders (3/3) - France



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