



Introduction of the **Regional Booking Platform**

Launch of RBP Pilot Project

Network User Info Day Siófok, 28 October 2014 Medias, 30 October 2014

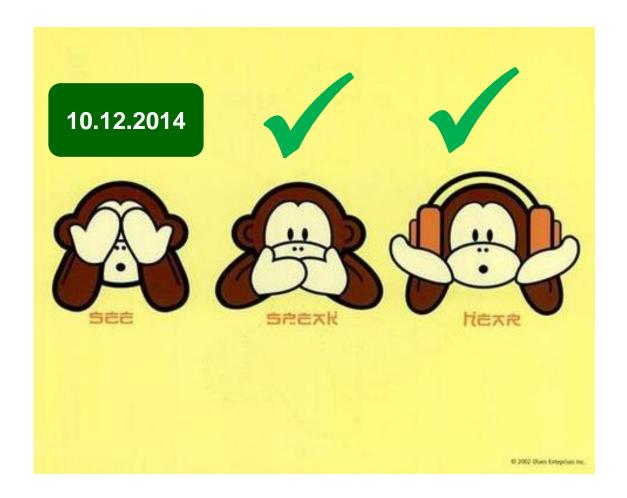
Balázs Tatár Head of Business Development FGSZ Ltd.





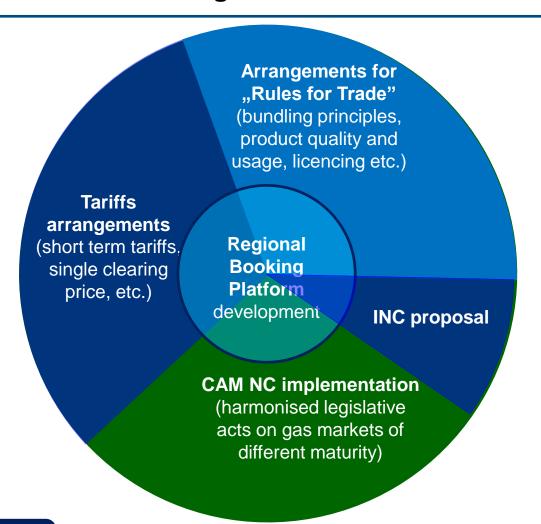


The 'Legend' of RBP





Scale of Challenges



Two-tier concept

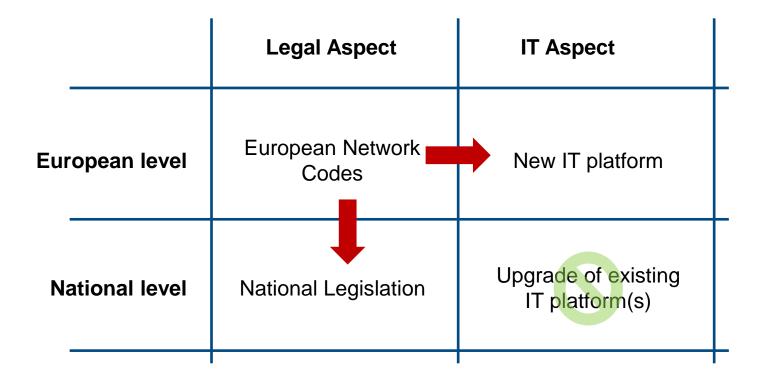
- enabling CAM NC (and more NCs) in different national legislations
- IT solution based on the above consideration

CAM NC Pilot

Way more is needed than providing a joint booking platform



Our Approach





A Summary of the Regional Booking Platform

- A capacity booking platform developed by FGSZ for the full compliance with CAM NC
- Thin client solution for both TSOs and network users (quick and easy access), which also radically limits TSO connection costs
- IP-by-IP based applicability (does not require exclusivity from TSOs)
- User-friendly interfaces
- Robust IT solution
 - Ability to service a high number of IPs (peak service load designed for 300 simultaneous capacity auctions)
 - 24/7 availability guaranteed by the RBP Operator (cf. within-day auctions)
- Customisable / on-demand functionality for TSOs and network users
- Flexible business model
- NRAs of the associated TSOs supervise platform operation

TSOs

Network Users











Producers

Traders

Shippers

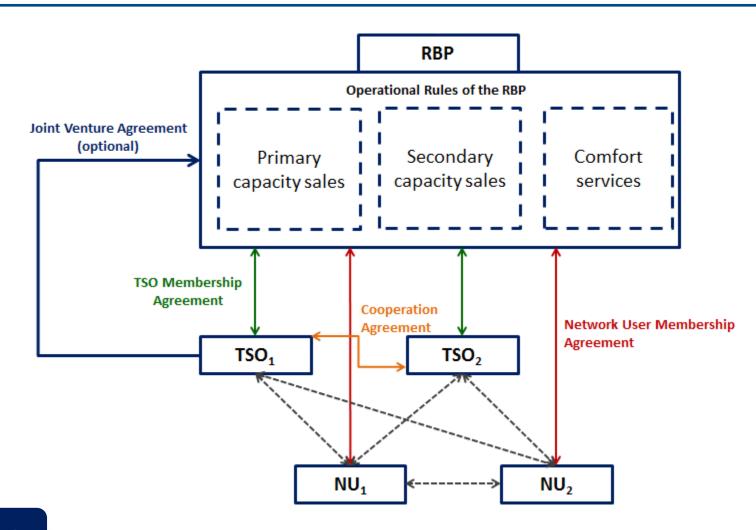
Large consumers



The Regional Booking Platform



Contractual Model of the RBP





A Functional Overview of RBP

Main Functional Blocks of the Regional Booking Platform

RBP web-based Application

- Auction engine
- Interactive user interface
- Scheduler
- Communication interface(s)

RBP web Portal

- General information
- NU registration
- · Mandatory publications

RBP App and Portal served by layered architecture

LAYER 1: PROXY

 Divert users into an ACTIVE set of servers, support test and replay functions (maintenance), and SILENT operation using mirrored and persisted commands

LAYER 2: APPLICATION

Active/Passive environment (no shutdown needed for change)

LAYER 3: DATABASE

- Oracle DB
- Source of reports, data exchange

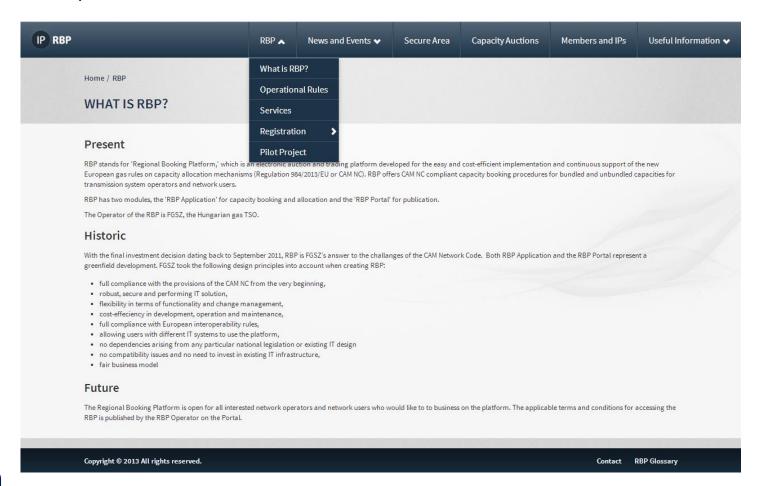
SYNCHRONISING between layers

Oracle Streams technology



Regional Booking Platform – Portal

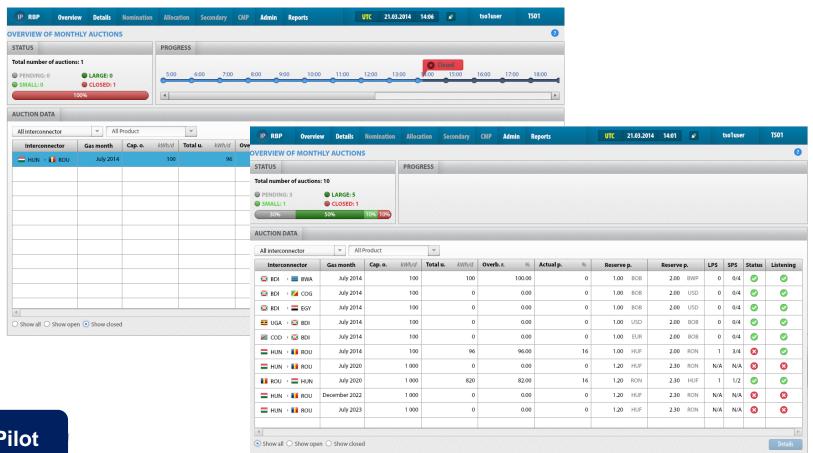
Publication portal for auction results and other information related to the RBP





Regional Booking Platform – Application

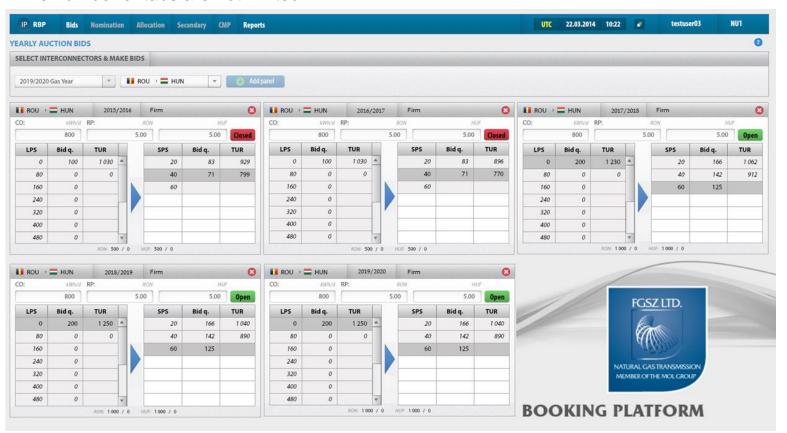
 TSOs set up auctions <u>online</u> on RBP, where all auction features are flexible parameters (auction calendar, network user access control, price steps, currency etc.)





Regional Booking Platform – Application

- RBP allows bidding for 6 auctions per tab
- The number of tabs are not limited





Plans for the Near Future

HU-RO Pilot

Potentially more than just monthly bundled capacities

Mass Auctions

 400+ Hungarian network points allocated via simultaneous auctions from March 2015 (bundled and unbundled)

Extension of Bundling

Talks to extend bundling to domestic storages (transmission+storage capacities)



Thank you for your kind attention!

Contact: rbp@fgsz.hu or pilot_rbp@transgaz.ro

www.fgsz.hu

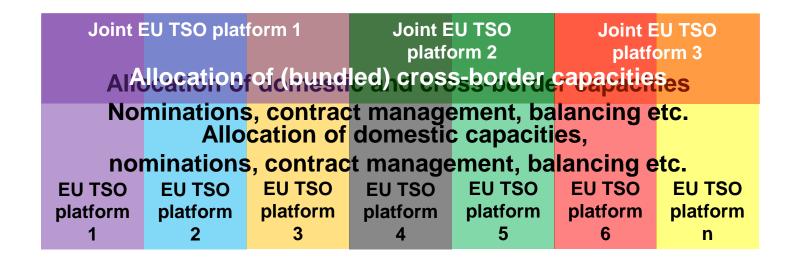


Backup slides

www.fgsz.hu



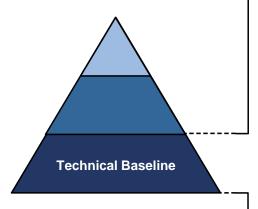
Joint Capacity Booking Platforms in the EU



Gas Flow



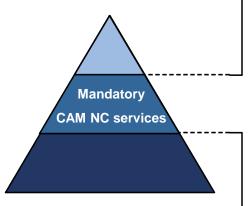
Technical Background of the Regional Booking Platform



- Layered IT architecture
 - Proxy
 - Application
 - Database
- IT solutions and licences used mainly by HP (hardware), Red Hat and Oracle (software)
- Continuous hot backup provided and disaster-proof secondary site arranged
- Test environment permanently available for network users and TSOs
- 24/7 technical helpdesk
- Secured areas are accessed via digital certificates



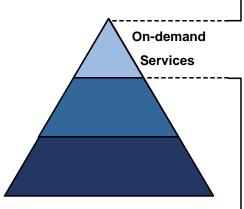
CAM NC Services of the Regional Booking Platform



- Product bundling or joint unbundled allocation
- Ascending clock algorithm
- Uniform price algorithm
- Bundled capacity allocation, using the above algorithms
- Unbundled capacity allocation, using the above algorithms
- Yearly, quarterly, monthly, daily and within-day auctions
- Electronic contracting
- Multi-currency handling
- Credit limit management
- Regulatory license management
- OTC secondary market for bundled and unbundled capacities



On-Demand Services of the Regional Booking Platform



- Flexible auctions (non-standard capacity products, auction calendar and auction scheduling)
- Single-sided nominations and allocation (although a CAM NC requirement, this is not specified for the booking platform)
- Route bundling
- Parallel bidding ladders (incremental capacity auctions)
- CMP for bundled capacities
- Multi-language interfaces
- SOAP interfaces
- Non-mandatory publication services
- Exchange-like (cleared, anonymous) secondary capacity market



Cost Allocation Model of RBP

