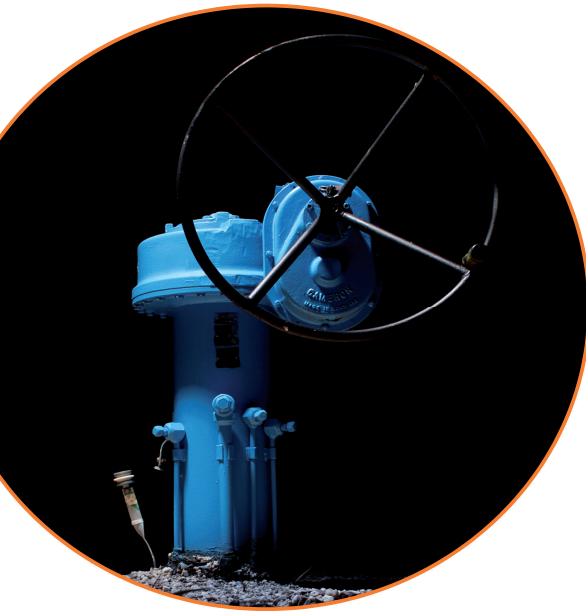


# The new capacity auctioning platform

The effective solution  
for Transmission System Operators  
seeking to fulfill the provisions of NC CAM



**OVERVIEW**

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# Legal basis for capacity platforms

The **GSA Platform** was developed in accordance with the **requirements of the European Network Code on Capacity Allocation Mechanisms** (NC CAM), adopted by the Commission Regulation (EU) No. 984/2013 of 14 October 2013.

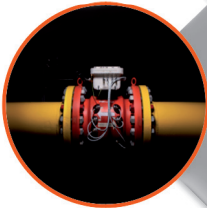
It is a solution allowing to implement the provisions of the NC CAM at reasonable costs. This proposal ensures high quality services that will satisfy both the Transmission System Operators and their customers.

Article 27 of CAM NC says:

1. Transmission system operators shall apply this Regulation by offering capacity by means of one or a limited number of **joint web-based booking platforms**. Transmission system operators can operate such **platforms** themselves or via an **agreed party** that, where necessary, acts on behalf of them towards the network users.(...)”.



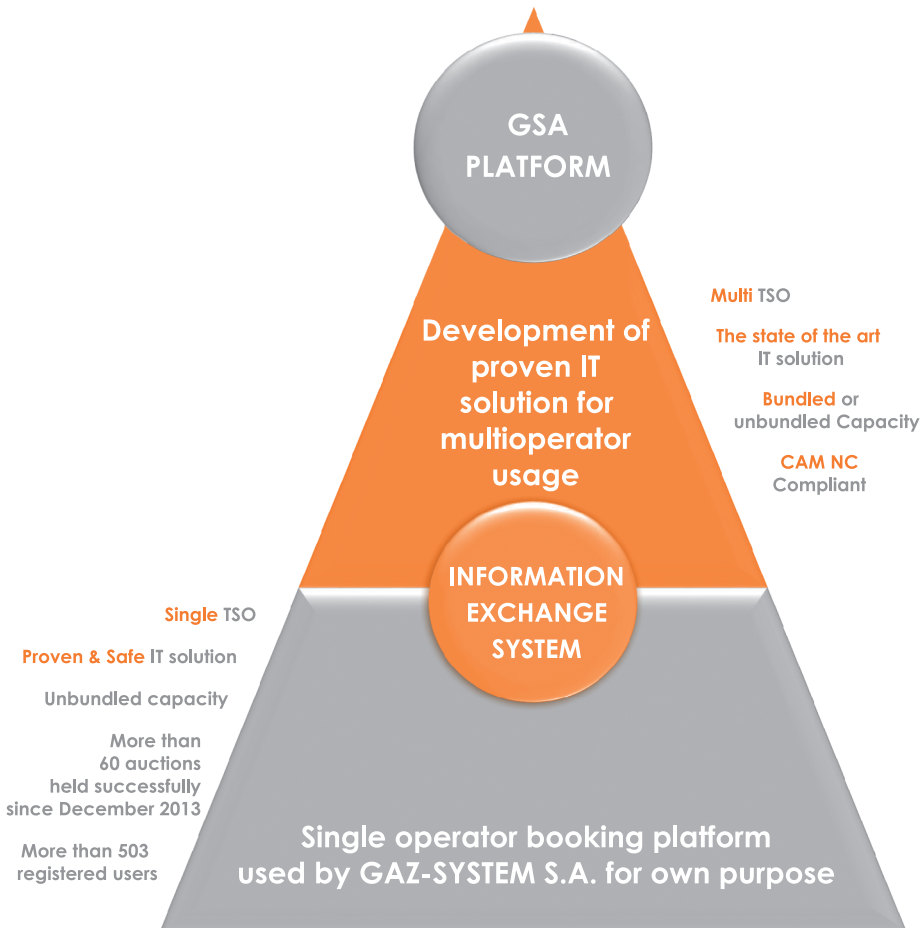
The GSA Platform is a **modern IT solution** for auctioning capacity in natural gas transmission systems



The GSA Platform enables offering the capacity products, which are related to physical points of **entry/exit on the interconnectors**, as well as virtual interconnection points



The GSA Platform enables TSOs to fulfil the obligation to offer capacity of gas pipelines through auction mechanisms in line with NC CAM. The platform **ensures the efficient** booking of capacity by Shippers at the points of those European TSOs who have made the decision to use this solution



**Maintenance 24/7**

# Technical details

**Database server – 2 pcs** (a similar efficiency to the Information Exchange System – IES)

**Database server:**

Microsoft Windows Server 2008 Enterprise Edition 64bit;  
Oracle Database 11g 11.2.0.1.0;  
Oracle Clusterware 11g 11.2.0.1.0

**Integration layer server – 2 pcs** (Integration layer of IES)

**Exchange of information with other TSO messages by edig@s** in accordance with the BRS ENT SOG. A Specification of messages available at <http://www.edigas.org/version-5> set "Capacity Trading Process"

**Integration layer server**

Microsoft Windows Server 2008 Enterprise Edition 64bit;  
webMethods Integration Server 7.1.2;  
webMethods Broker 7.1.2;  
my webMethods Server 7.1.2;  
webMethods Trading Networks Server 7.1.2

**Application server–2 pcs, each:**

4 core, 10GB RAM, 100GB hard drive  
High-speed connection with database and integration layer

**Application server**

Microsoft Windows Server 2008 Enterprise Edition 64bit;  
Java 7.51 (64bit)  
Tomcat 7.0.50

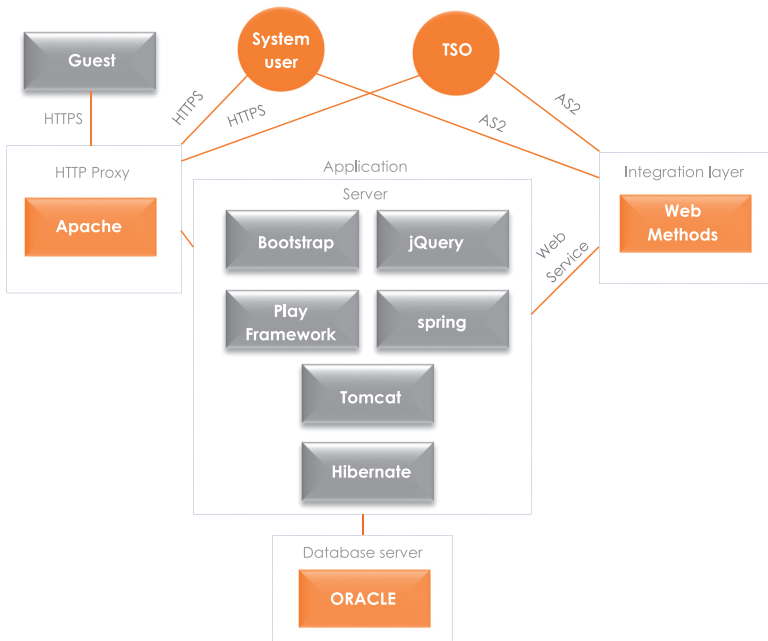
**WEB server–2 pcs, each:**

4 core, 10GB RAM, 100GB hard drive  
High-speed connection with database and integration layer

**WEB server**

Microsoft Windows Server 2008 Enterprise Edition 64bit;  
Java 1.6.0.14  
Apache 2.2.26  
mod\_jk 1.2.30

# Logical architecture



# Platform interface

Welcome page of GSA Platform

**WELCOME TO THE GAZ-SYSTEM – AUCTIONS PLATFORM!**

"We are convinced that the GAZ-SYSTEM Auctions Platform is a solution which – not less than a physical extension of transmission corridors – contributes to the emergence of new, interesting business synergies, as well as improving the security and flexibility of natural gas transmission in Europe." - Jan Chadom, President of the Management Board of GAZ-SYSTEM S.A.

[More](#)

### Operators

We invite all of the new Transmission System Operators interested in cooperating with the GSA Platform to register.

[Register »](#)

### Shippers

We invite all of the new Network Users interested in cooperating with the GSA Platform to register.

[Register »](#)

### Sign in

[Login](#)

## Network points

Point ID	Point Name	BIC code	Direction	Type of gas	Capacity type	Bundled	Operator	Comment
123456		123456	Exit	H-gas	Firm interruptible	✗		
172434	Punkt Wazemnego Polaczenia (PWP)	KDG	Entry	H-gas	Firm	✗	GAZ-SYSTEM	
202411	Łańcuch newars	KDG	Entry	H-gas	Firm		GAZ-SYSTEM	
272411	Łańcuch	KDG	Entry	H-gas	Firm		GAZ-SYSTEM	
272416	Głubin (we)	KDG	Entry	H-gas	Firm		GAZ-SYSTEM	
300001	Cieleszyn newars	KDG	Entry	H-gas	Firm		GAZ-SYSTEM	
321		321	Entry	H-gas	Conditional Firm interruptible			comments
370001	Cieleszyn	KDG	Entry	H-gas	Firm	✗	GAZ-SYSTEM	
372414	Stronie-Czechy	KDG	Entry	H-gas	Firm		GAZ-SYSTEM	
402402	Hermanowice k. Ubrinska	KDG	Exit	H-gas	Firm interruptible		GAZ-SYSTEM	

Showing 1 to 10 of 19 entries

1 2 3

Show 10 entries

## Bidding

Auctions Operators Shippers Contracts Network points News Documents
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Success. Bid placed in the current round: [50 000 kWh/h]

**Auction - auction ID: 143** ⏪ 30 [sec] ⏩ [Details](#) [History](#) [Back](#)

Product	2014-07-01 - 2014-07-31		Round	Running: [1.0] L	
Point	[172434] Punkt Wzajemnego Polqcz;		From - To	13:30 - 13:40 h:mm	
Offering capacity	100 000 kWh/h		Time remaining	3:22 mm:ss	
Large price step	0.003 PLN/kWh/h				
Small price step	0.0006 PLN/kWh/h				
Tariff	0.3 PLN/kWh/h				

**Bidding**

	Previous round	Actual round
Surcharge	<input type="text"/> PLN/kWh/h	0 PLN/kWh/h
Bid	<input type="text"/> kWh/h	50 000 kWh/h
Capacity cost	<input type="text"/> PLN/kWh/h	11 160 000 PLN/kWh/h
	<input type="text"/> kWh/h	50 000 kWh/h <span style="float: right; background-color: #d9534f; color: white; padding: 2px 5px; border-radius: 3px;">Bid</span>

## Auction summary

Auctions Operators Shippers Contracts Network points News Documents
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**Auction summary: 143** [History](#) [Back](#)

Auction status	Finished		Point	[172434] Punkt Wzajemnego Polqcz;	
Auction resolved	Resolved		Product	2014-07-01 - 2014-07-31	
Offering capacity	100 000 kWh/h		Price step	0.003 PLN/kWh/h	
Auction finish date	2014-05-30 14:55		Tariff	0.3 PLN/kWh/h	
Acquired capacity	0 kWh/h		Cost of the acquired capacity	0 PLN	
Allocated capacity	75 000 kWh/h		Surcharge	0.0024 PLN/kWh/h	
Unallocated capacity	25 000 kWh/h				

**Auction details**

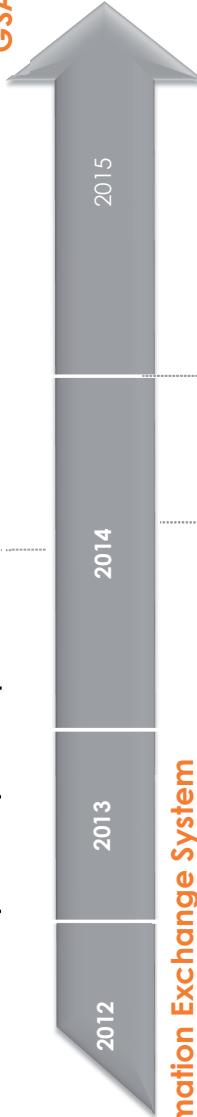
Operator	GAZ-SYSTEM		GAZ-SYSTEM ISO
Point	[172434] Punkt Wzajemnego Polqcz;		[800034] SGT Punkt Wzajemnego Pol
Capacity type	Firm		Firm
Direction	Entry		Exit
Tariff	0.1 PLN/kWh/h		0.2 PLN/kWh/h
Surcharge	0.0008 PLN/kWh/h		0.0016 PLN/kWh/h
Cost of the acquired capacity	0 PLN		0 PLN

# Timeschedule of implementation

## STAGE I (MAY / JUNE 2014)

- Implementation of GSA platform functionalities related to conducting bundling product auctions
- Ready for bundled projects
- Monthly, Quarterly, Annual products

## GSA Platform



## Information Exchange System for GAZ-SYSTEM S.A. clients

- Pilot projects

## STAGE II (31 DECEMBER 2014)

- Additional interface (edig@s v5 in accordance with BRS ENTSOE)
- Multicurrency
- Secondary Market
- Advanced security mechanisms
- Multilanguage
- Tariff calculator
- Financial security check
- Daily & Within-day Auctions

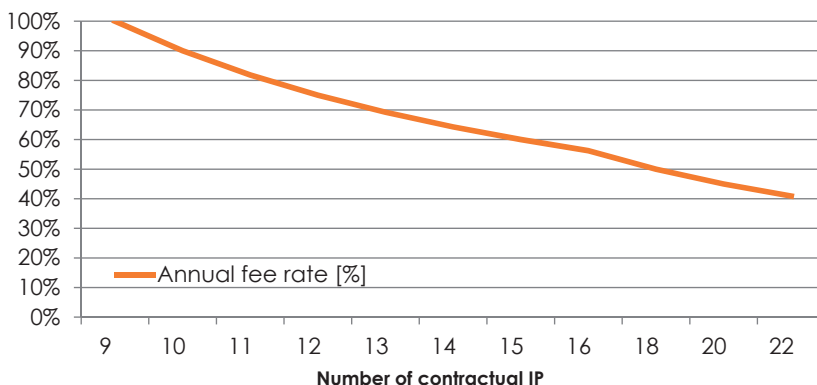


# Cost and management philosophy

## Cost

- Functionalities fully compliant with and limited to requirements set for capacity auctioning (NC CAM)
- Products and services provided **efficiently** and at the **highest level of IT security**
- Each TSO joining the GSA Platform, **will lower unit cost** of its operation and implementation (per IP)
- Annual fee estimated around **15 000 – 20 000 EUR per Contractual IP**
- Fee independent from the number of auctions carried out by Operator at the Contractual IP
- Pilot projects free of charge

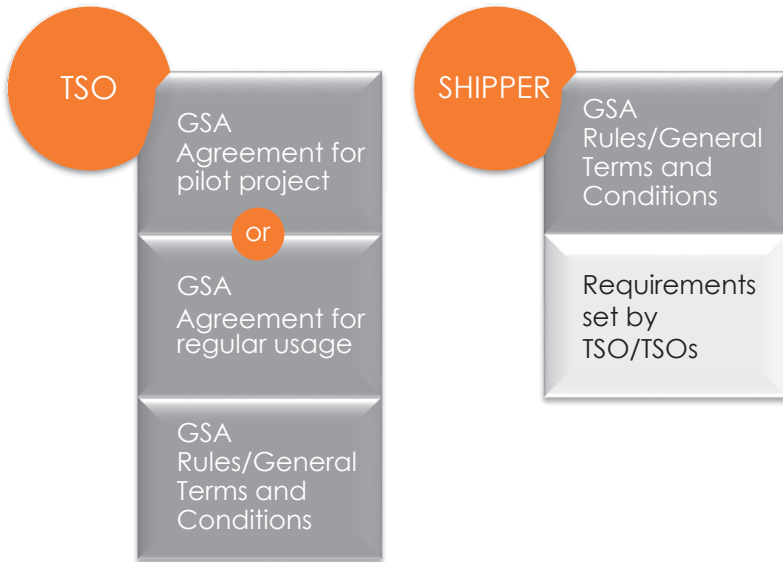
**Correlation between annual fee rate and numbers of IP**



## Governance

- Council of TSOs, approval of:
  - Strategy
  - Budget
  - Development of functionalities
  - Branding
- Consensus – as the principle of decision making

# How to access GSA?



For interested Parties, we would welcome a possibility to present the GSA Platform in more detail (i.e. registration, auction process) at a dedicated workshop in the GAZ-SYSTEM S.A. headquarters in Warsaw or elsewhere.

If your Company is interested in the details of the GSA Platform, please contact following persons:

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– Manager, Department of International Projects

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# About GAZ-SYSTEM S.A.

Gas Transmission Operator GAZ-SYSTEM S.A. is **responsible** for the transportation of natural gas and the operation of the transmission network in Poland. The importance of the company's mission places it among the group of **strategic enterprises for the Polish economy** and the energy security of the country.

Operates on the basis of a **license** issued by the President of the Energy Regulatory Office (ERO), which is valid until 2030 and gives the company the right to transport gas.

In addition, the company acts as the **transmission system operator and the independent operator** of the Polish section of the Yamal Pipeline (TGPS Yamal – Europe).



Gas Transmission Operator GAZ-SYSTEM S.A. is a strategic company of the Polish economy, which is in charge of natural gas transmission and the management of the most important gas pipelines in Poland. Till 2014, GAZ-SYSTEM S.A. will construct over 1000 km of new transmission gas pipelines. The most important ones will be constructed in North-West and Central Poland. The expansion of the gas pipeline system may be an important element of the North-South Gas Corridor, which integrates natural gas markets in CE countries. Investments carried out by GAZ-SYSTEM S.A. and a reverse service on the Yamal gas pipeline have enabled to improve the energy security of Poland by increasing technical capacities of import from a direction other than the East up to almost 70% of total import (till 2011: it was 9%).



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**Gas Transmission Operator GAZ-SYSTEM S.A.**

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[www.gaz-system.pl](http://www.gaz-system.pl)