

NET4GAS

Communication schema

Communication channel

For automatic communication NET4GAS, s.r.o. provides web service "tryGAS" available all over the internet.

Communication is done over the standard AS2 protocol using HTTPS.

For the data exchange standard EDIG@S XML version 4.0 is used.

NET4GAS, s.r.o. returns MDN to all incoming request.

For asynchronous responses NET4GAS, s.r.o. can use AS2 server of partner, or SMTP protocol.

AS2 Specification

Contact	
1. Contact	Technical hot-line (system tryGAS)
Name	PREROGATIVE BUSINESS s.r.o.
Phone	+420 775 363 749
E-mail	stanislav.kriz@pr-b.cz
Network Production	
AS2-URL	https://212.67.81.13:443/AS2Server
Inbound public IP-Address (Firewall)	212.67.81.13
Outbound public IP-Addresses (Firewall)	212.67.81.5
Port (provide access if necessary)	443 (HTTPS)
AS2-Parameter Production	
AS2 Engine	Internal tryGAS AS2 engine
AS2-ID	N4G
MDN-Mode	Synchronous
MDN Signed	Yes
Signature Algorithm	SHA-1
Encryption Algorithm	3DES
Compression	No
Certificate Authority	CA N4G
Certificate valid to (yyyy-mn-dd)	2021-09-26
Key size	512
MIME Type	application/edifact

Certification process

Asymmetric encryption, signatures and HTTPS technology are used. Therefore several certifications are needed.

- **NET4GAS Public key** – partner receives from NET4GAS, should use it for asymmetric encryption, and for verify N4G MDN signature. CA N4G issues this certificate.
- **Public and private partner's key** – partner issues (or any CA issues for partner). Partner is required to send public key to NET4GAS. NET4GAS verifies partner's signature according to this certificate, and uses it for asymmetric encryption of MDN.
- **PFX certificate** – partner receives from NET4GAS, should use it for HTTPS communication. CA N4G issues this certificate.

EDIG@S XML

NET4GAS, s.r.o. has mapped standard EDIG@S XML for the purpose of communicate with Czech TSO.

1. Nomination process

Request – **NOMINT**
Synchronous MDN – **Apperak**
Asynchronous response – **NOMRES** (via AS2 or SMTP)

2. Matching process

Request – **DELORD / DELRES**
Synchronous MDN – **Apperak**

3. Technical data exchange (gas flow, GCV, linepack)

Request – **GASDAT**
Synchronous MDN – **Apperak**

See EDIG@S mapping for the specific process.