



ADVANTICA
A Germanischer Lloyd Company

Version 1.1

20th July 2008

CUSTOMER NOMINATION SYSTEM HIGH LEVEL DESIGN

Confidential

Customer Ref: 101109

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ST.ÖNER SOFTWARE

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1 INTRODUCTION

1.1 BACKGROUND

This document describes the high level design of a web-based nomination module for E.ON Földgáz Trade to sit within the Access Manager Framework previously implemented by Advantica.

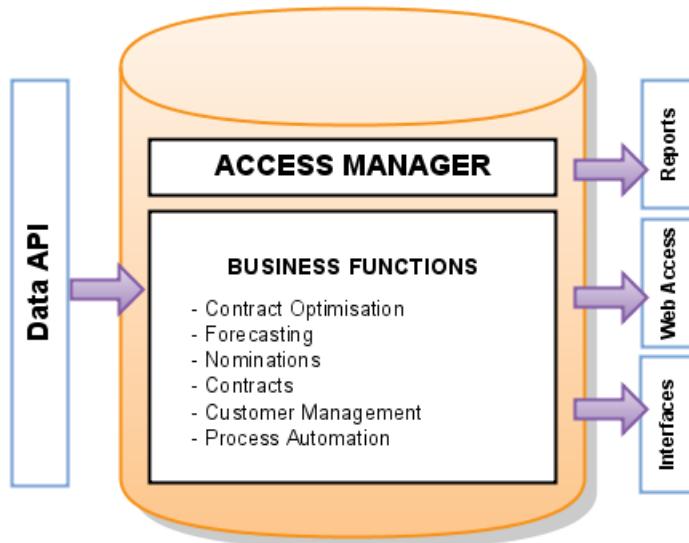
This document has been produced based on the requirements communicated to Advantica in January 2007 during workshops held by Advantica and through documentation supplied by EFT and later discussions.

This document provides high-level details as to how the system will present itself and function once implemented. It must meet the high level objectives specified previously, those being:

- Provision of a web-based interface as part of the Access Manager system, that enables EFT to:
 - Manage the list of gas delivery stations that may be contracted with;
 - Enter and modify contract parameters and create contract templates;
 - Tracks and ensures compliance with the deadline of the request submission procedure;
 - Confirm the reception of the nomination on the user interface an via e-mail;
 - Verifies the suitability of the request before submission;
 - Produce commercial confirmation for each customer for each gas delivery station;
 - Customers are able to submit their requests via uploading Excel spreadsheet or direct input;
 - Manage the separation of traders – data management and access (having for each of the traders internal and external admin, normal and KAM users);
 - Available internally and externally;
 - Handle the capacity interruptions and possible restrictions, limitations;
 - Sends e-mails and SMS messages to the customers categorized to the different kind of the message types
 - Digitally sign all emails and to get third party time stamps for each transaction including nomination submission and commercial confirmations;
 - Provide a mechanism by which timestamps can be authenticated;
 - Provision of a database level API supporting secure and separate (PUW/OMT) data access.

1.2 DESIGN GOALS

The main design goal of this particular phase is to be mindful of later project phases where functionality may be built upon, and to adhere to the vision of the single integrated solution.



1.3 QUALITY REVIEWERS

Name	On Behalf Of	Review Focus
Sanjay Pabari	Advantica	Technical
Jennifer Broughton	Advantica	Project Management
Fiona Harding	Advantica	Project Governance

1.4 VERSION HISTORY

Version	Date	Author	Description
0.1	12/02/2007	Anthony Gilbert	Initial version for review
0.2	23/02/2007	Kornél Kocsmár	Initial Comments
0.3	21/03/2007	Anthony Gilbert	Include additional scope
0.4	18/04/2007	Anthony Gilbert	Updated following review
1.0	10/03/2007	Anthony Gilbert	Final Version
1.1	20/07/2008	Szabolcs Pétermann Anthony Gilbert	Audit review

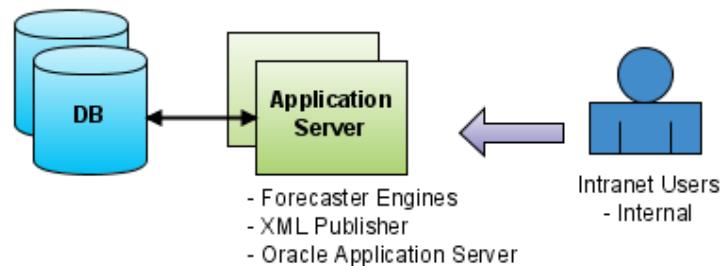
2 ARCHITECTURE

The following section briefly describes the proposed architecture of this solution, from the point of view of system components and constraints.

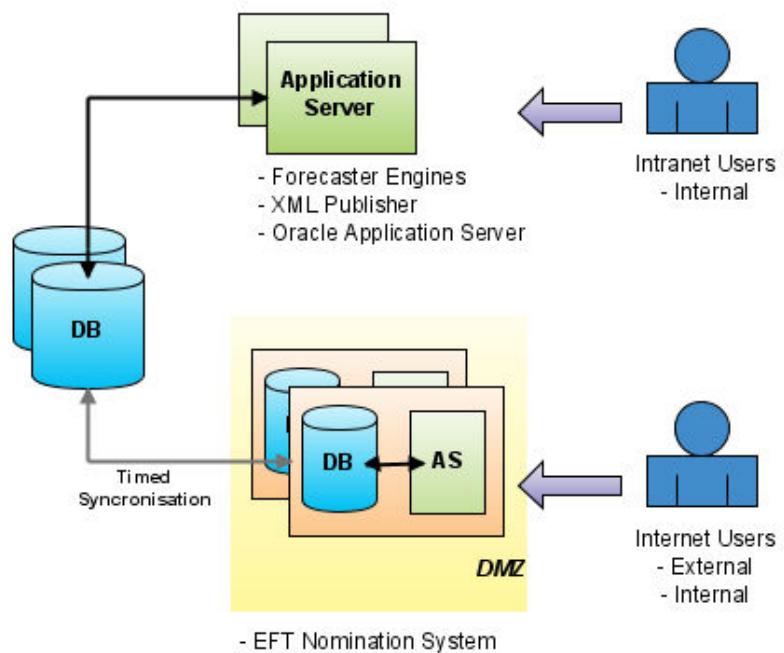
2.1 SYSTEM COMPONENTS

Building upon the system delivered to support the forecasting requirements of phase one, the nominations system will coexist within the same framework as an integrated component. As such, the system will be web based, delivered using Oracle technology (both Oracle database and Oracle application server).

The following diagram depicts the architecture in place for phase one:



The nomination system adds additional complexity due to complexity of having external users access this system. Due to this, a second application server will be introduced for the purposes of serving external requests only. This will mitigate any risk associated with external demand affecting any of the other services running on the internal application server. Due to technical and security constraints surrounding communication with machines in the DMZ, an additional database server has been introduced into the architecture for the purposes of serving the nomination project only. Data stored in this database will be accessible from the internal systems, and will also be replicated periodically to mitigate any risks associated with being externally facing. This is depicted below.



The above architecture depicts an element of fault tolerance by mirroring or clustering machines, such that there is no longer any single point of failure. This is outside the scope of this particular project; however, Advantica are able and willing to provide support to the vendor hosting these services should any help be required.

2.2 SYSTEM CONSTRAINTS

This section briefly lists the constraint, or mandatory requirements, that the system must support. These are covered in more detail elsewhere in the document. These requirements are:

- Data and user interface separation – The application must provide separation between data for the Public Utility (PUW) and Open Market (OPM) such that a user for one market may not see data for the other market;
- Multi Lingual – The system must support dual language, these being English and Hungarian, and must be selectable on a user basis. The codepage that is required for the appropriate displaying the special Hungarian characters is: Code page Latin 2 – ISO 8859-P2;
- Audit – All significant transactions with the system should be audited and be made available for review if required;
- Error Logs – Any significant errors that occur during normal day-to-day operations should be logged and made available to the system administrators. These errors may be investigated and marked as cleared once addressed. The errors concerning the business logic have to be displayed for the internal users on the user interface;
- API – Access to the data entered into the system must be made available to EFT users via documented APIs. These must also adhere to the data segregation rules. The API offers users read-only access;
- Communication – Sending messages for more than one customer via e-mail and displaying them on the bulletin board;
- Digitally signed emails with time stamped contents;
- SMS communication;
- Handling different message types with the e-mails, SMS messages and on the Bulletin Board;
- External time stamping authentication provided by the National Communications Authority approved service provider that has a super-authentication from an international service provider (HIF);
- Automatic assembling and dispatching of commercial confirmation to the customers;
- Commercial confirmation produced in binary Excel and XML format;
- Handling of hourly nomination input formats;
- Handling of capacity interruptions;
- Providing a web-based interface (with https protocol) through which the customers can:
 - submit their nominations;
 - receive their commercial confirmations;
 - receive messages;
- Manage the users: Internal and external administrators can view the details of users belonging to them, modify the existing user details, create new users and lock existing users;

3 MODULES

The following section describes the individual components of the system in terms of a brief description, usage, attributes, a mock up of how the module should look and any specific processing and validation. Please note that any screenshots will be in English; however, the delivered modules will have the capability to be multi-lingual.

3.1 MAINTAIN CUSTOMER

3.1.1 Description

A screen to allow entry and modification of customers and associated attributes required to support other areas of the system.

3.1.2 Actors

This screen is to be used by the EFT business administrator only.

3.1.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Short Name, Mandatory, Unique	The short name of the customer.	Insert, Update.
Full Name, Mandatory	The full name of the customer.	Insert, Update.
Primary Contact	The primary contact name at the customer.	Insert, Update
Primary Contact Telephone	The telephone number of the primary contact.	Insert, Update
Customer Type	Whether the customer is related to the open market (OMT) or public utility market (PUW). It should be decided and handled separately during the logging on to the system. The system should know based on the user name to which trader the user logged in.	Display Only.
Email Address, Mandatory	The main contact email address for the customer.	Insert, Update.
Telephone Number, Mandatory	The main telephone number for the customer.	Insert, Update.
Fax Number, Mandatory	The main fax number for the customer	Insert, Update.
Description	Free format field allowing further details regarding the customer to be recorded.	Insert, Update.
Commercial Confirmation	The subject of the confirmation letter. This can contain tags that are	Insert, Update.

Attribute Name	Description	Allowed Actions
Subject, Mandatory	substituted at runtime.	
Commercial Confirmation Content, Mandatory	The main body of the confirmation letter. This can contain tags that are substituted at runtime.	Insert, Update.
Nomination Confirmation Subject, Mandatory	The subject of the nomination confirmation letter. This can contain tags that are substituted at runtime.	Insert, Update.
Nomination Confirmation Content, Mandatory	The main body of the nomination confirmation letter. This can contain tags that are substituted at runtime.	Insert, Update.
Auto Generate Confirmation	Whether nomination confirmation should be automatically sent for this customer. Set as a Yes/No flag.	Insert, Update (default: No)
Name of the E.ON KAM, Mandatory	Name of the KAM manager within EFT. This is a link to a system user (in the same market) with the KAM role.	Select, Update
Telephone Number of the E.ON KAM, Mandatory	The telephone number of the KAM within EFT.	Insert, Update
Confirmation Format	The format that the commercial confirmation should take, either: Excel (binary) XML	Insert, Update
Individual Deadline for Nomination Submit	Individual deadline for submission of a nomination, overrides the system default.	Insert, Update, Delete
Shipper	The name of the shipper associated with the customer	Insert, Update
Interruption Subject	The subject of the interruption email. This can contain tags that are substituted at runtime.	Insert, Update
Interruption Content	The main body of the interruption email. This can contain tags that are substituted at runtime.	Insert, Update
Interruption SMS message	The main body of the interruption SMS message. This can contain tags that are substituted at runtime.	Insert, Update
Period Start,	The date range that the user should be	Insert, Update

Attribute Name	Description	Allowed Actions
Period End	considered active from and to.	

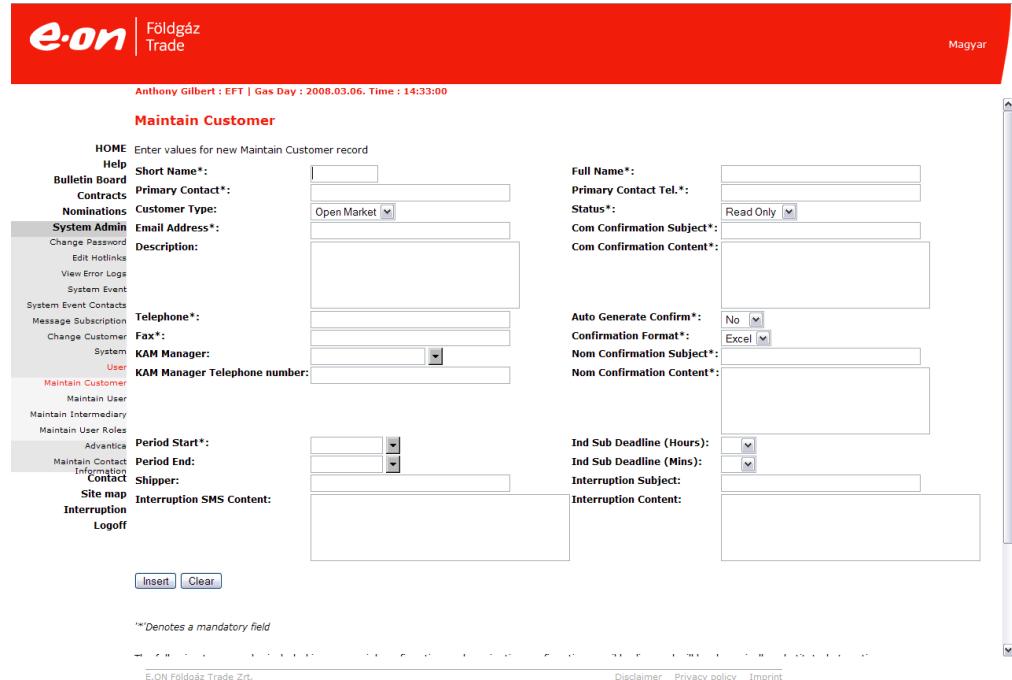
3.1.4 Validation

No specific validation required.

3.1.5 Screen Sample

The following is a screenshot of how the Maintain Customer screen will appear.

3.1.5.1 Customer Details



The screenshot shows the 'Maintain Customer' screen for E.ON Földgáz Trade. The interface is in English with some Hungarian text. The left sidebar has a navigation menu with links like HOME, Help, Bulletin Board, Contracts, Nominations, System Admin, Change Password, Edit Hotlinks, View Error Logs, System Event, System Event Contacts, Message Subscription, Change Customer, System, User, Maintain Customer, Maintain User, Maintain Intermediary, Maintain User Roles, Advantica, Maintain Contact, Intermediary Contact, Site map, Interruption, and Logoff. The main form has fields for Short Name*, Primary Contact*, Customer Type, Email Address*, Description, Telephone*, Fax*, KAM Manager, KAM Manager Telephone number, Period Start*, Period End*, Shipper, Interruption SMS Content, Full Name*, Primary Contact Tel.*, Status*, Com Confirmation Subject*, Com Confirmation Content*, Auto Generate Confirm*, Confirmation Format*, Nom Confirmation Subject*, Nom Confirmation Content*, Ind Sub Deadline (Hours), Ind Sub Deadline (Mins), Interruption Subject, and Interruption Content. Buttons for Insert and Clear are at the bottom left, and links for Disclaimer, Privacy policy, and Imprint are at the bottom right.

3.2 MAINTAIN USER

3.2.1 Description

A screen to allow entry and maintenance of users of the system.

3.2.2 Actors

This screen is to be used by

- EFT business administrators for the purposes of setting up internal and customer administration accounts, and for use by customer administrators for creating and modifying customer accounts.
- EFT internal users for the purpose of setting up and modifying internal and customer accounts.

3.2.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

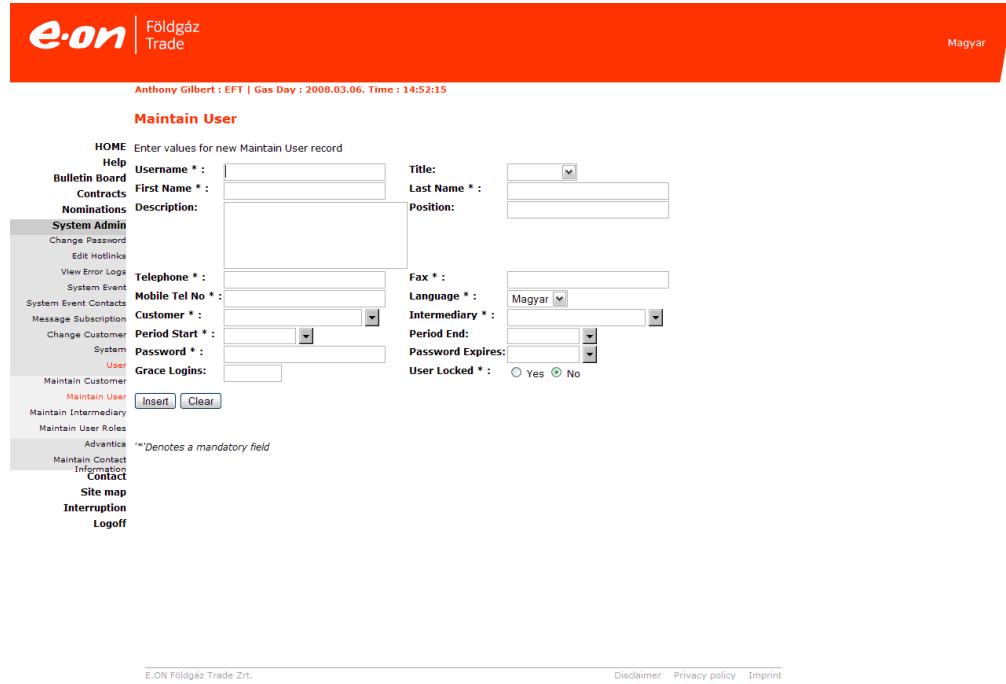
Attribute Name	Description	Allowed Actions
Username, Mandatory	The username used by the user to log in.	Insert
Title	The title of the customer	Insert, Update
First Name	The first name of the user	Insert, Update
Last Name	The surname of the user	Insert, Update
Description	Any other details to record regarding the user	Insert, Update
Position	The position held by the user	Insert, Update
Telephone	The telephone number of the user	Insert, Update
Fax	The fax number of the user	Insert, Update
Mobile	The mobile number of the user	Insert, Update
Language	The default language of the user that the system should be presented in following login.	Insert, Update
Customer, Intermediary, Mandatory	The default customer and intermediary to assign to the user.	Choose, Update
Period Start, Period End	The date range that the user should be considered active from and to.	Insert, Update
Password, Mandatory	The password associated with the username, entered and its hash stored in the database.	Insert, Update
Password Expires	The date that the users password will expire	Insert, Update
Grace Logins	The number of permitted when a password change is required before locking the user.	Insert, Update
Status, Mandatory	The status of the user, either unlocked or locked.	Choose, Update Default: Locked
Email Accounts (Including SMS)	Many email accounts and SMS numbers may be assigned to each individual user.	Update
Intermediaries	Many intermediaries may be assigned to each individual user	Update

3.2.4 Validation

Basic validation in place to ensure that duplicate usernames are not enterable.

3.2.5 Screen Sample

The following is a screenshot of the existing Maintain User screen. This will be used as the basis of this module with the additional attributes listed above added.



The screenshot shows the 'Maintain User' screen of the E.ON Földgáz Trade system. The main form fields are:

- Username *: [Text Input]
- First Name *: [Text Input]
- Last Name *: [Text Input]
- Title: [Text Input]
- Position: [Text Input]
- Telephone *: [Text Input]
- Fax *: [Text Input]
- Mobile Tel No *: [Text Input]
- Language *: Magyar [Dropdown]
- Intermediary *: [Dropdown]
- Period Start *: [Text Input]
- Period End: [Text Input]
- Password Expires: [Text Input]
- User Locked *: [Radio Buttons] Yes (unchecked), No (checked)

The left navigation bar includes links for HOME, Help, Bulletin Board, Contracts, Nominations, System Admin, Change Password, Edit Hotlinks, View Error Log, System Event, System Event Contacts, Message Subscription, Change Customer, System, User, Maintain Customer, Maintain User, Maintain Intermediary, Maintain User Roles, Maintain Contact, Intermediary Contact, Site map, Interruption, and Logoff. The 'User' link is highlighted. The footer links include E.ON Földgáz Trade Zrt., Disclaimer, Privacy policy, and Imprint.

3.3 MAINTAIN CONTRACTS

3.3.1 Description

A screen allowing entry and modification of customer contracts and associated attributes. More than one contract can be created per customer; however, only one valid contract may be active at any point in time.

This screen will allow the following items to be added to the contract:

- Categories
- Parameters (those not linked to categories, as these are automatically inherited)
- Network Points
- Contract Values - allows values to be defined against the intersection of sites and categories for each of the three parameter values (min, max, contracted), and parameters not linked to categories (in a matrix style screen).
- To define the rules for validating the nominations on submitting and for assembling the commercial confirmations.

- To define parameters used by the validation processes and commercial confirmation process.

The ability to create and assign contract templates will be provided, containing

- categories
- parameters
- rules

Note that assigning a template will not inherit any values as contract templates do not hold any values.

The ability to copy a current contract when creating a new contract, similar to 'Create Like', will be supported.

3.3.2 Actors

This screen is to be used by EFT to create and maintain their customers' contracts.

3.3.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

3.3.3.1 *Contract Attributes*

Attribute Name	Description	Allowed Actions
Identifier, Unique	The identifier of the contract	Insert.
Customer, Mandatory	The customer to which the contract applies. List is limited to customers within the market of the connected user.	Choose
Contract Template, Optional	The contract template to apply to the contract, if selected.	Choose
Input format	The format of the spreadsheet, either: - Single Day - Multiple Day	Choose, Modify. Default is Single Day.
Start Date, Mandatory	The start date of the contract,	Insert, Update.
End Date, Mandatory	The end date of the contract after which it is no longer active.	Insert, Update.
Operational Contact	The operational contact for the contract.	Insert, Update.
Business Contact	The business contact for the contract.	Insert, Update.
Days Before	The number of days before the contract becomes active that a nomination may be entered. Defaults to 60 days.	Insert, Update

Attribute Name	Description	Allowed Actions
Status	Whether the contract is active or inactive.	Update.
Validation Window	The number of days to look back in the absence of a valid nomination.	Insert, Update. Default: 60 days
Validation Action	The action to take when an invalid or no nomination is present, either: <ul style="list-style-type: none"> ▪ Replace ▪ Look Back 	Choose, Update. Default: Look Back
Look Back To	When looking back pick valid nominations from: <ul style="list-style-type: none"> ▪ Tip nominations (last valid by gas days) ▪ All Nominations (valid) 	Choose, Update.
Validation Exception	When no valid nomination present, use: <ul style="list-style-type: none"> ▪ Minimum Value ▪ Contracted Value ▪ Maximum Value 	Choose, Update. Default: Min value

3.3.3.2 Site Attributes

Attribute Name	Description	Allowed Actions
Site Name Mandatory, Unique	Ability to assign sites to the contract with on-screen filter option.	Insert, Update.

3.3.3.3 Category Attributes

Attribute Name	Description	Allowed Actions
Category Name	Ability to assign multiple categories to the contract. Categories inherited from contract templates may not be removed.	Insert, Update.

3.3.3.4 Parameter Attributes

Attribute Name	Description	Allowed Actions
Parameter Name	Ability to assign multiple parameters to the contract. Parameters inherited from	Insert, Update.

	contract templates may not be removed.	
--	--	--

Once the above have been entered, the second page may be selected allowing entry of contract specific values.

3.3.3.5 *Network Point Parameter Values*

Attribute Name	Description	Allowed Actions
Parameter Value	Numeric values may be assigned to the intersection of sites and parameters in a matrix style screen.	Insert, Update.

3.3.4 **Validation**

Basic validation will take place on entry of the contract to ensure:

- The contract number is unique
- An active contract does not overlap any existing contracts. Inactive can be in overlap with an active one.
- All network point parameters have values in the correct format.

3.3.5 Screen Sample

3.3.5.1 Maintain Contract – Page 1

The screenshot shows the 'Maintain Contract' page of the E.ON Földgáz Trade system. The top navigation bar includes links for HOME, Help, Bulletin Board, Contracts, Nominations, System Admin, Contact, Site map, Interruption, and Logoff. The main content area is titled 'Maintain Contract' and contains the following fields:

- Contract Number:** EFT
- Customer Name:** EFT
- Contract Template Name:** (dropdown menu)
- Input Format:** Multiple Day
- Ops Contact:** (dropdown menu)
- Business Contact:** (dropdown menu)
- Days before:** 60
- Status:** Open
- Date From:** (dropdown menu)
- Date To:** (dropdown menu)
- Validation Window:** (dropdown menu)
- Validation Action:** Look Back
- Validation Exception:** Contracted Amount
- Lookback to:** Tip Nomination

A note at the bottom left states: "Denotes a mandatory field".

The 'Contract Details' section contains three tabs: Insert, Set Values, and Rules. The Set Values tab is selected, showing a matrix for contract details:

Network Points		Categories	Parameters
<input type="button" value="Remove Selected Network Points"/> Aba-Torokkoppány Abaujker Abony Ajka Alag 1+2		<input type="button" value="Remove Selected Categories"/> Nem megszakítható (Mj/nap) Nem megszakítható (m3/nap) Nem megszakítható (m3/óra) Megszakítható 10 napos (m3/nap) Megszakítható 10 napos órai (m3/óra)	<input type="button" value="Remove Selected Parameters"/> Földgáz GRP napi maximális mennyisége GRP napi minimális mennyisége Max of the hourly minimum for a day. The minimum Daily/Hourly factor.
<input type="button" value="Add Network Points"/>		<input type="button" value="Add Categories"/>	<input type="button" value="Add Parameters"/>

At the bottom of the page, there are links for E.ON Földgáz Trade Zrt., Disclaimer, Privacy online, and Imprint.

3.3.5.2 Maintain Contract – Page 2

This screen allows entry of category and parameter values related to the contract. The screen is in matrix format and displays category names along the x-axis and network point names and codes on the y-axis. The screen is now limited to displaying a maximum of 25 network points, displaying further details over later pages. Each page may be selected by number upon entry to the screen.

e-on | Földgáz
Trade

Magyar

Anthony Gilbert : EFT | Gas Day : 2008.03.06. Time : 16:10:51

Maintain Contract Values

Contract Number

Network Point Parameter Values

Network Point	Nem megszakítható (MJ/nap)			Nem megszakítható (m3/nap)			Nem megszakítható (m3/óra)		
	Minimum	Maximum	Contracted	Minimum	Maximum	Contracted	Minimum	Maximum	Contracted
Abony	0	0	0	0	0	0	0	0	0
Ajka	0	0	0	0	0	0	0	0	0
Aba-Törökkoppány	0	0	0	0	0	0	0	0	0
Abaújkér	0	100	100	0	0	0	0	0	0

[HOME](#) [Help](#) [Bulletin Board](#) [Contracts](#) [Nominations](#) [System Admin](#)

[Contact](#)
[Site map](#)
[Interruption](#)
[Logoff](#)

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3.4 CONTRACT TEMPLATE

3.4.1 Description

A screen which allows entry of contract template details and associated categories and parameters to be later used when creating a contract.

3.4.2 Actors

This screen is to be used by EFT administrators.

3.4.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Name	The identifier of the contract template	Insert.
Description	A description of the contract template	Insert, Update.

3.4.3.1 Category Attributes

Attribute Name	Description	Allowed Actions
Category Name	Ability to assign multiple categories to the contract template	Insert, Update.

3.4.3.2 Parameter Attributes

Attribute Name	Description	Allowed Actions
Parameter Name	Ability to assign multiple parameters to the contract template.	Insert, Update.

3.4.3.3 Rule Attributes

Attribute Name	Description	Allowed Actions
Rule Name	Ability to assign multiple rules to the contract. Only rules of type row may be attached to a template.	Insert, Update.

3.4.4 Validation

No specific validation identified,

3.4.5 Screen Sample

Anthony Gilbert : EFT | Gas Day : 2008.03.06. Time : 17:45:22

Maintain Contract Template

HOME	Contract Template Name *	<input type="text"/>
Help	Description *	<input type="text"/>
Bulletin Board	**Denotes a mandatory field	
Contracts	Contract Template Details	
Nominations	<input type="button" value="Insert"/>	<input type="button" value="Rules"/>
System Admin		
Contact		
Site map		
Interruption		
Logoff		

Categories	Parameters
<input type="button" value="Remove Selected Categories"/>	<input type="button" value="Remove Selected Parameters"/>
Nem megszakítható (M3/nap) Nem megszakítható (m3/nap) Nem megszakítható (m3/óra) Megszakítható 10 napos (m3/nap) Megszakítható 10 napos órai (m3/óra)	Földgáztár GRP napi maximális mennyisége GRP napi minimális mennyisége Max of the hourly minimum for a day. The minimum Daily/Hourly factor.
<input type="button" value="Add Categories"/>	<input type="button" value="Add Parameters"/>

E.ON Földgáz Trade Zrt. [Disclaimer](#) [Privacy policy](#) [Imprint](#)

3.5 MAINTAIN RULES

3.5.1 Description

A screen to allow entry, maintenance and validation of rules used for nomination validation and the production of commercial confirmation. This should be considered a sub-screen of the Maintain Contract screen as rules are assigned to contracts and contract templates; however, has been documented separately due to the complexity of this screen.

Rules take the form of a two-sided equation, each side comprising of categories, parameters, constants, numeric values and operators.

The screen also allows the user to define the relationship between the two sides of the formula.

The rules either apply to each site or a combination of sites using special rules to specify which sites they should apply using the categories or parameters indexed by site names. That way a rule will be valid only for a group of sites. Rules of this type (sheet) may only be assigned when creating or modifying a contract, they may not be created independently of a contract.

3.5.2 Actors

This screen is to be used by EFT administrators.

3.5.3 Attributes Recorded

The following table lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes

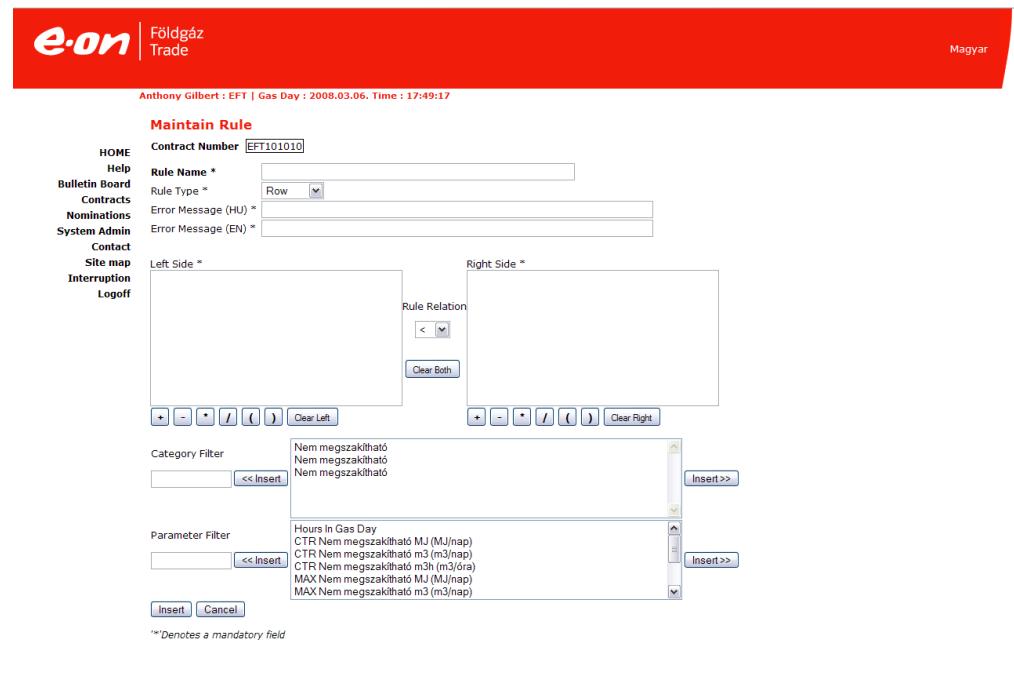
Attribute Name	Description	Allowed Actions
Name	The name of the rule	Insert, Update
Type	The target to which the rule applies, with row or sheet.	Choose.
Message	A message to be displayed should the rule return a false result. Defined both in English and Hungarian.	Insert, Update
Left Side, Right Side	<p>The left and right side of the equation. The following may be entered here manually or by selection from a list box:</p> <ul style="list-style-type: none"> ▪ Categories ▪ Parameters ▪ Constants ▪ Numeric values ▪ Operators ()+ - / * <p>In case of 'Form' rule the categories and parameters will be prefixed by the network point code.</p>	Insert, Update
Operator	<p>The operator to compare left and right sides of the equation, either:</p> <ul style="list-style-type: none"> ▪ < ▪ <= ▪ > ▪ >= ▪ <> ▪ = 	Insert, Update

3.5.4 Validation

When a rule is submitted it is validated to ensure that it is syntactically correct and attributes are consistent with its type – for example, a row based rule cannot specify sites; however, a sheet based rule should specify sites.

3.5.5 Screen Sample

3.5.5.1 Maintain Rules



Anthony Gilbert : EFT | Gas Day : 2008.03.06. Time : 17:49:17

Maintain Rule

Contract Number: EFT101010

Rule Name *:

Rule Type *: Row

Error Message (HU) *:

Error Message (EN) *:

Left Side *:

Right Side *:

Rule Relation: < >

Category Filter: <<Insert>>

Parameter Filter: <<Insert>>

Hours In Gas Day:

- Nem megszakítható
- Nem megszakítható
- Nem megszakítható
- CTR Nem megszakítható MJ (MJ/nap)
- CTR Nem megszakítható m3 (m3/nap)
- CTR Nem megszakítható m3h (m3/óra)
- MAX Nem megszakítható MJ (MJ/nap)
- MAX Nem megszakítható m3 (m3/nap)

* Denotes a mandatory field

3.6 MAINTAIN NETWORK POINTS

3.6.1 Description

A screen to allow entry and modification of network points and associated attributes. The screen auto-queries on entry with the first batch of sites; however, following this specific query criteria may be specified to filter the list of returned sites.

3.6.2 Actors

This screen is to be used by EFT business administrators.

3.6.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Identifier, Mandatory Unique	The maximum twenty-four-digit long identifier for the site. A unique code uses the alphanumeric characters without spaces. This is the code that the rule editor uses.	Insert
Name	The name of the site, can contain special Hungarian characters.	Insert
Status	The status of the site, either Active or inactive.	Insert, Update
Type	Whether the site is an entry or exit point.	Choose

3.6.4 Validation

The network point identified must be unique.

3.6.5 Screen Sample

3.6.5.1 Maintain Sites – Record List

Network Point ID *	Name *
EONFGTKKTDBE	K.Kúti FGT-be besajtolt saját gáz
EONFGTKTKDKI	Kardoskúti saját termelés OTV
EONFGTMKTDBE	Márcsi-I FGT-be besajtolt saját gáz
EONFGTPKTDBE	Pádárcsai FGT-be besajtolt saját gáz (Bajáns.Óris)
EONKDTREGFGY	Füzesgyármárt-regi
EONKDTREGNKA	Nikánizsa (saját term.) (L-11.L-12)
GERABOC51VEN	Babócsa 0 pont
GERABOC512EN	Babócsa REGIONÁLIS
GERABOC511GN	Babócsa

System Admin Records 1 to 10
[Contact](#) [Last](#) [ReQuery](#) [Count](#)
[Site map](#) [Query](#) [New](#)
[Interruption](#) [Logoff](#)

3.6.5.2 Maintain Sites – Record Details

Maintain Network Points

Network Point ID *	EONFGTKKTDBE, K.Kúti FGT-be besajtolt saját gáz
Name *	K.Kúti FGT-be besajtolt saját gáz
Status *	Active
Network Point Type *	

System Admin
[Contact](#) [Delete](#) [Revert](#) [New](#)
[Site map](#) [Interruption](#)

3.7 Maintain Categories

3.7.1 Description

A screen to allow entry and modification of categories and associated attributes.

3.7.2 Actors

This screen is to be used by EFT Administrators.

3.7.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

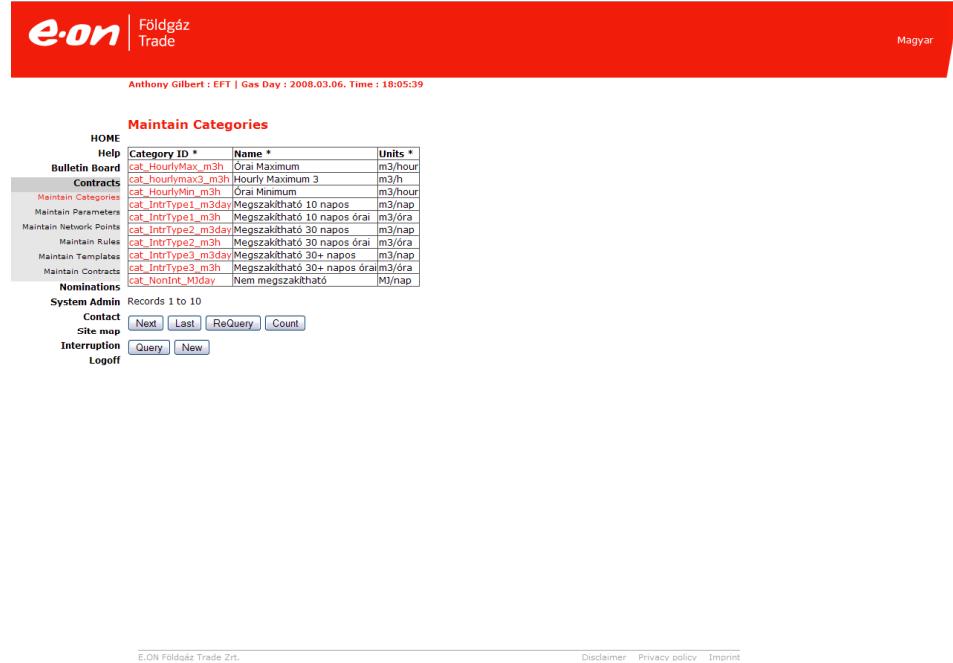
Attribute Name	Description	Allowed Actions
Identifier	Short name of the category. A unique code uses the alphanumeric characters without spaces. This is the code used by rule editor.	Insert, Update
Name	The category name.	Insert, Update
Interruptible	Checkbox indicating whether the category should be considered to be interruptible.	Insert, Update
Units	The units associated with the category. This is displayed on the nomination form just below the name of the category. In the instance where more than one category is displayed with the same name, the name cell will be merged with the units displayed underneath.	Insert, Update
Number format	The number format enforced when entering the category value.	Insert, Update
Display Sequence	The order by which the categories are displayed.	Insert, Update
Display Condition	<p>The display condition, either:</p> <ul style="list-style-type: none"> - Always - Long Day - Short Day <p>To control categories for the long and short day.</p>	Insert, Update
Parameter Checkboxes	Checkboxes to allow automatic creation of the related parameters (MIN, MAX and CTR) when inserting the category.	Insert

3.7.4 Validation

No specific validation identified.

3.7.5 Screen Sample

3.7.5.1 Maintain Categories – Record List



Category ID *	Name *	Units *
cat_HourlyMax_m3h	Órai Maximum	m3/hour
cat_hourlymax3_m3h	Óra Maximum 3	m3/h
cat_HourlyMin_m3h	Óra Minimum	m3/hour
cat_HourlyNap_m3h	Óra napos	m3/nap
cat_IntrType1_m3h	Megszakítható 10 napos órai	m3/óra
cat_IntrType1_m3day	Megszakítható 10 napos órai	m3/nap
cat_IntrType2_m3h	Megszakítható 30 napos órai	m3/óra
cat_IntrType2_m3day	Megszakítható 30 napos órai	m3/nap
cat_IntrType3_m3h	Megszakítható 30+ napos órai	m3/óra
cat_IntrType3_m3day	Megszakítható 30+ napos órai	m3/nap
cat_NonInt_M3day	Nem megszakítható	M3/nap

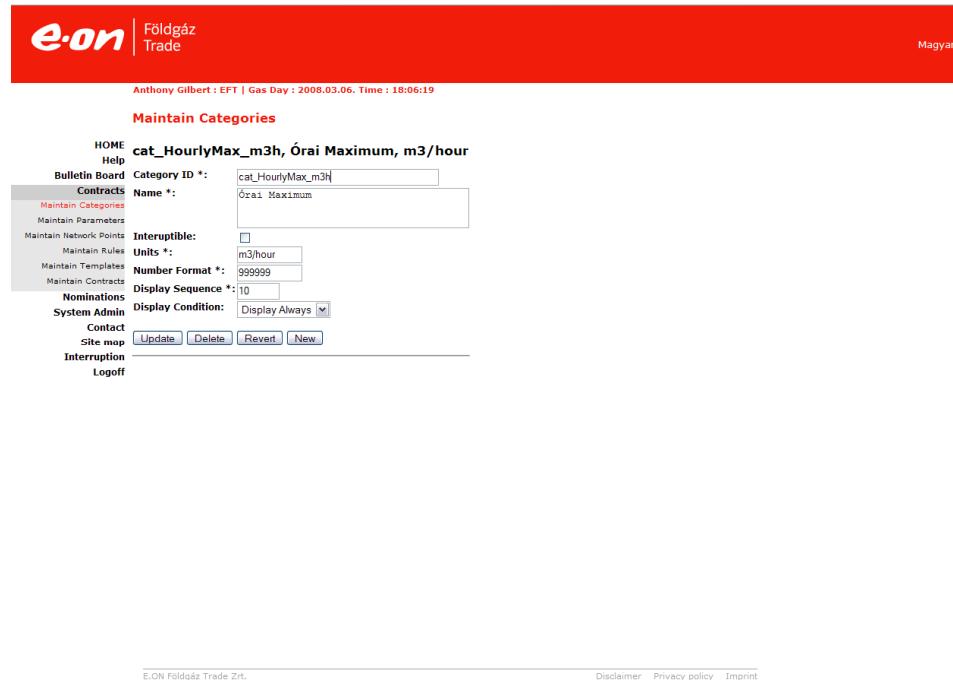
Records 1 to 10 of 10

[Contact](#) [Site map](#) [Logoff](#)

[Next](#) [Last](#) [ReQuery](#) [Count](#)

[Query](#) [New](#)

3.7.5.2 Maintain Categories – Input Screen



Maintain Categories

Category ID *	cat_HourlyMax_m3h
Name *	Órai Maximum
Interuptible:	<input type="checkbox"/>
Units *:	m3/hour
Number Format *:	999999
Display Sequence *:	10
Display Condition:	Display Always

[Contact](#) [Site map](#) [Logoff](#)

[Update](#) [Delete](#) [Revert](#) [New](#)

3.8 MAINTAIN PARAMETERS

3.8.1 Description

A screen to allow entry and modification of parameters and associated attributes.

3.8.2 Actors

This screen is to be used by EFT administrators.

3.8.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Identifier	The identifier if the parameter. If related to a category the convention used is to name it as: <i>categoryname.parametername</i>	Insert, Update
Parameter Name	The name of the parameter	Insert, Update
Category	The category to which the parameter relates, optional.	Insert, Update

3.8.4 Validation

No specific validation identified.

3.8.5 Screen Sample

3.8.5.1 Maintain Parameters – Record List

Anthony Gilbert : EFT | Gas Day : 2008.03.06. Time : 18:08:14

Magyar

Maintain Parameters	
HOME	Code *
Help	Parameter Name *
Bulletin Board	cat_D_makeup_m3day.CTR
Contracts	Contracted cat_D_makeup_m3day
Maintain Categories	cat_D_makeup_m3day.MAX
Maintain Parameters	Maximum cat_D_makeup_m3day
Maintain Network Points	cat_D_makeup_m3day.MIN
Maintain Rules	Minimum cat_D_makeup_m3day
Maintain Templates	cat_HourlyMax_m3h.CTR
Maintain Contracts	Contracted Hourly maximum
Nominations	cat_HourlyMax_m3h.MAX
System Admin	Maximum Hourly maximum
Contact	cat_HourlyMax_m3h.MIN
Site map	Minimum Hourly maximum
Interruption	cat_hourlymax2_m3h.CTR
	Contracted Hourly Maximum
	cat_hourlymax2_m3h.MAX
	Maximum Hourly Maximum
	cat_hourlymax2_m3h.MIN
	Minimum Hourly Maximum
	cat_HourlyMin_m3h.CTR
	Contracted Hourly minimum
System Admin	Records 1 to 10
Contact	Next Last ReQuery Count
Site map	
Interruption	Query New
Logoff	

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3.8.5.2 Maintain Parameters – Entry Screen

Anthony Gilbert : EFT | Gas Day : 2008.03.06. Time : 18:08:30

Magyar

Maintain Parameters	
HOME	Code *:
Help	Parameter Name *:
Bulletin Board	cat_D_makeup_m3day.CTR
Contracts	Contracted cat_D_makeup_m3day
Maintain Categories	
Maintain Parameters	Update Delete Revert New
Maintain Network Points	
Maintain Rules	
Maintain Templates	
Maintain Contracts	
Nominations	
System Admin	
Contact	
Site map	
Interruption	
Logoff	

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3.9 ENTER NOMINATIONS

3.9.1 Description

A screen to allow entry of a nomination specific to the entering customer and constrained by contractual parameters held by that customer at the time of entry.

A nomination may be entered in one of three ways:

- Direct entry via the nominations screen
 - On entry to the Enter Nomination screen, the customer will be first asked to enter the applicable gas day (default is the next gas day) – this is to determine which is the active contract at that point in time and to ensure the correct nomination categories are displayed for input. A matrix style screen will then be displayed to enable the customer to enter the category values specific to their contract and network point(s). All values will initially default to zero. Once entered these values may be submitted for validation and then for entry as a nomination.
- Copying previous nomination
 - On entry to the Enter Nomination screen, the customer will be first asked to enter the applicable gas day – this is to determine which the active contract is at that point in time and to ensure the correct nomination categories are displayed for input. The customer may then select 'Copy Previous Nomination' allowing them to select a date relating to a previously entered nomination. When selected, the matrix will be pre-populated with the information from the previous nomination which the customer can then modify before validating and submitting, as described previously.
- Submission of an Excel spreadsheet:
 - Customer can download an Excel spreadsheet template part filled based on its contract and nomination type for completion and then uploaded to the system for validation.
 - Two formats of Excel templates are supported. One for a single gas day with the gas day specified in the header. The second for multiple gas days with the gas day specified in each row. Nominations may be submitted into the system for the next 60 days.
 - The customer can also download an hourly based template, when supported by the contract, for submitting the nominations in an hourly based format.

3.9.2 Actors

This screen is to be used by the EFT customers to submit nominations to EFT; however, there may be instances where EFT business users have to enter nominations on behalf of customers and this functionality and audit trail of such activities will be catered for.

3.9.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Entry Type	Either: - Create Nomination - Copy Previous Nomination - Upload Spreadsheet	Radio Group, Choose
Contract Identifier	The contract identifier for the current customer for the gas day entered	Pop-list, Choose
Gas Day	Gas Day(s) to which the nomination applies. This then determines the content displayed on the entry screen (based on the active contract for that gas day).	Input
Network Points	A list of the network point(s) associated with the context contract. Code and Name	Display Only
Categories	The categories associated with the contract displayed along the top of the grid.	Display Only
Unit	The unit concerning the given category. It appears just below the name of the category	Display Only
Value	The nomination value for the context network point and category	Input

3.9.4 Validation

A nomination may be pre-validated before submission by pressing the Validate Nomination button; however, the nomination will also be subject to the same validation checks prior to submission.

When the nomination is submitted the rules are enacted to validate the nomination. Any errors will be displayed on the screen if the nomination fails any validation checks.

If the nomination passes the validation checks and is accepted a confirmation screen is displayed with the date of the gas day to which the nomination was submitted and with the date and time of nomination receipt and a confirmation email is sent to the customer confirming receipt. All emails to the customer from the system are digitally signed. The nomination is classed as being officially received once the customer email is received or the nomination is visible on the view nomination screen.

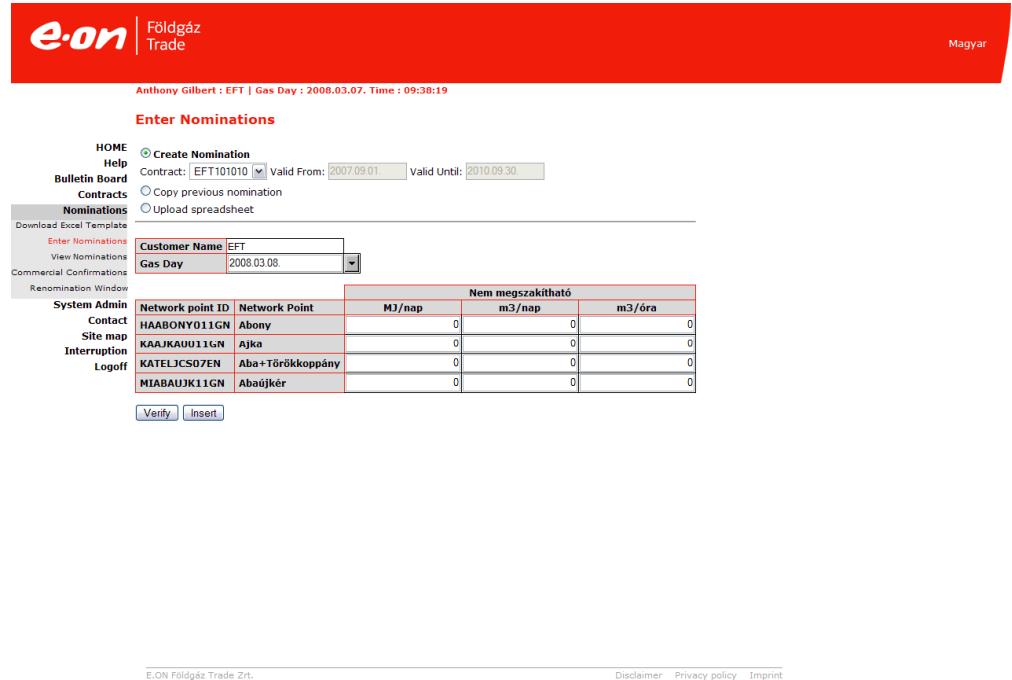
The contents of the email sent to each customer is based on static text held within the system; however, certain key attributes such as Gas Day, Customer Name and Nomination Identifier will be injected into the message in the place of defined tags.

3.9.5 Screen Sample

The following section displays the two different types of screen available for nomination submission.

3.9.5.1 Single Gas Day:

The matrix on the nomination screen for a single gas day displays the network point code, network point name, category name, category units and nomination values in the intersection between network point and categories. The categories are in the same order as defined on the contract.



The screenshot shows the 'Enter Nominations' page of the E.ON Földgáz Trade system. The top navigation bar includes the E.ON logo, 'Földgáz Trade', and a language selection 'Magyar'. The main menu on the left includes 'HOME', 'Help', 'Bulletin Board', 'Contracts', 'Nominations', 'Download Excel Template', 'Enter Nominations', 'View Nominations', 'Commercial Confirmations', 'Renomination Window', 'System Admin', 'Contact', 'Site map', 'Interruption', and 'Logoff'. The 'Nominations' menu item is highlighted.

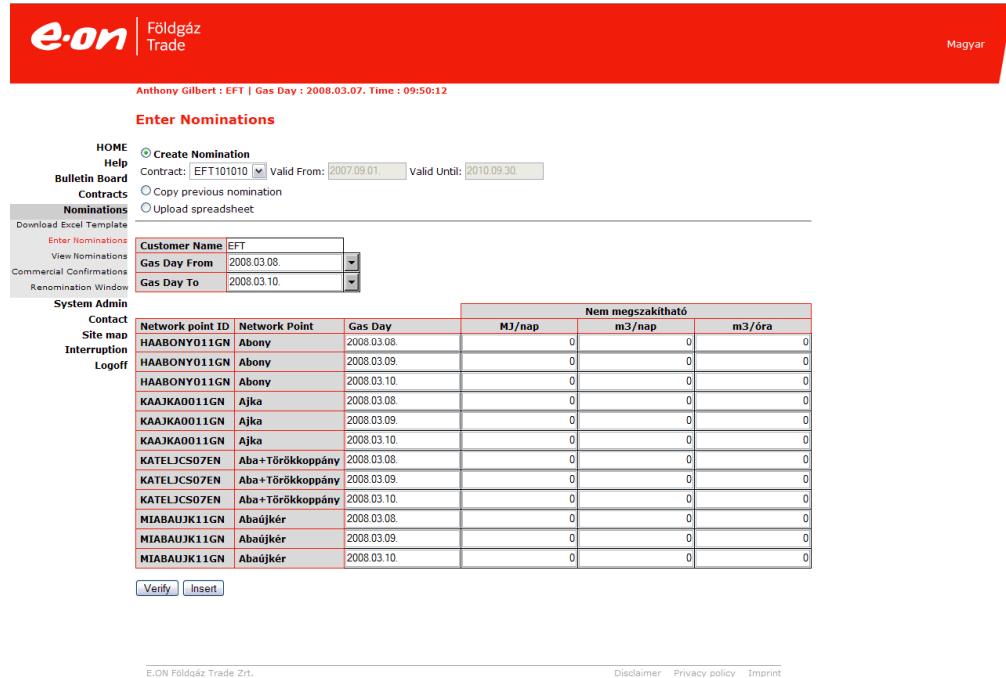
The central area displays a nomination matrix for a 'Gas Day' on '2008.03.08'. The matrix has 'Network point ID' and 'Network Point' as columns, and 'Nem megszakítható' (不可中断) as the header for the rows. The nomination values are as follows:

Network point ID	Network Point	M3/nap	m3/nap	m3/óra
HAABONY011GN	Abony	0	0	0
KAAJKAU011GN	Ajka	0	0	0
KATELJCS07EN	Aba+Törökoppány	0	0	0
MIABAUJK11GN	Abaújkér	0	0	0

At the bottom of the page, there are 'Verify' and 'Insert' buttons. The footer contains the text 'E.ON Földgáz Trade Zrt.' and links to 'Disclaimer', 'Privacy policy', and 'Imprint'.

3.9.5.2 Multiple Gas Day

The multiple gas day nomination screen differs from the single gas day screen by allowing entry of nomination values for multiple gas days. The gas day range is specified at the top of the screen which automatically populates the grid with the required dates.



The screenshot shows the 'Enter Nominations' page of the E.ON Földgáz Trade system. The top navigation bar includes the E.ON logo, 'Földgáz Trade', and a 'Magyar' link. The main menu on the left includes 'HOME', 'Help', 'Bulletin Board', 'Contracts', 'Nominations', 'Download Excel Template', 'Enter Nominations', 'View Nominations', 'Commercial Confirmations', and 'Renomination Window'. The 'Nominations' menu is currently selected. The 'Enter Nominations' section has a 'Create Nomination' radio button selected, with 'Contract: EFT101010' and 'Valid From: 2007.09.01' and 'Valid Until: 2010.09.30' fields. Below this are 'Copy previous nomination' and 'Upload spreadsheet' options. The main content area shows a table of nominations:

Nem megszakítható					
Network point ID	Network Point	Gas Day	MJ/nap	m3/nap	m3/óra
HAABONY011GN	Abony	2008.03.08.	0	0	0
HAABONY011GN	Abony	2008.03.09.	0	0	0
HAABONY011GN	Abony	2008.03.10.	0	0	0
KAAJKA0011GN	Ajka	2008.03.08.	0	0	0
KAAJKA0011GN	Ajka	2008.03.09.	0	0	0
KAAJKA0011GN	Ajka	2008.03.10.	0	0	0
KATELJCS07EN	Aba+Törökroppány	2008.03.08.	0	0	0
KATELJCS07EN	Aba+Törökroppány	2008.03.09.	0	0	0
KATELJCS07EN	Aba+Törökroppány	2008.03.10.	0	0	0
MIABAUJK11GN	Abaújkér	2008.03.08.	0	0	0
MIABAUJK11GN	Abaújkér	2008.03.09.	0	0	0
MIABAUJK11GN	Abaújkér	2008.03.10.	0	0	0

At the bottom of the page are 'Verify' and 'Insert' buttons.

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3.10 VIEW NOMINATIONS

3.10.1 Description

A screen to allow previously entered (and accepted) nominations to be retrieved in list format, and allow nomination confirmation details to be retrieved.

Nominations may be queried by contract or nomination identifier. The nominations can be downloaded from the system at any time in the format of an Excel spreadsheet.

3.10.2 Actors

This screen is to be used by the EFT customers that require read-only access to nominations or to review previously entered nominations.

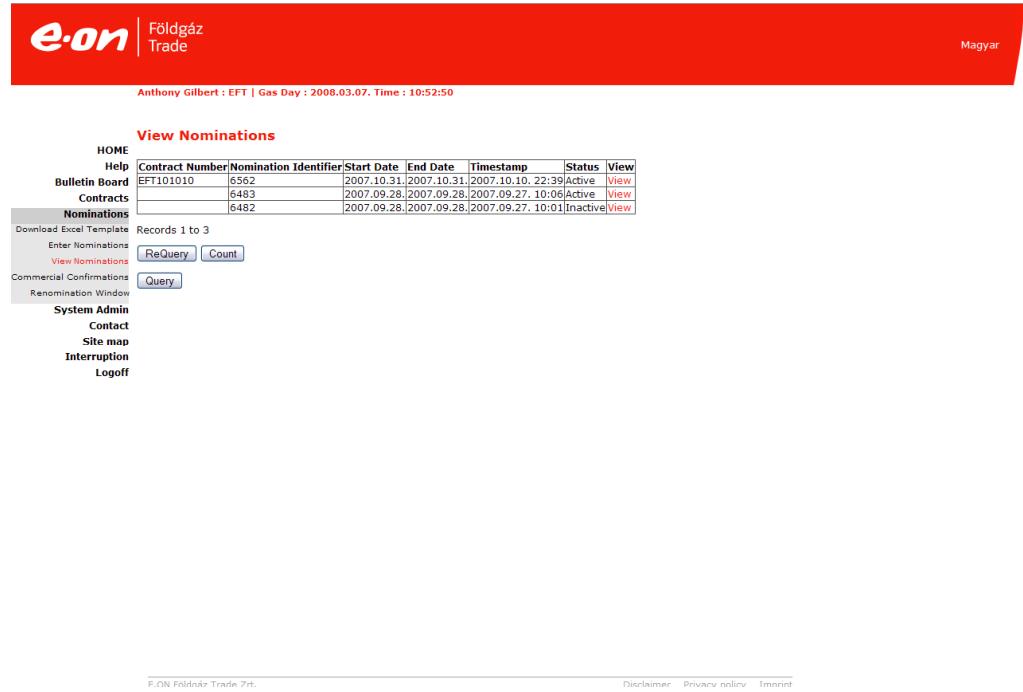
3.10.3 Attributes Recorded

The following lists the attributes to be displayed on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Contract Identifier	The contract identifier for the contract used when entering the nomination.	Display Only
Nomination Identifier	System generated unique identifier.	Display Only
Start Date, End Date	Gas Day(s) to which the entered nomination applies.	Display Only
Timestamp	The date and time the nomination was recorded. Supplied by an external timestamping service.	Display Only
Status	The status of the nomination. Whether it is considered to be the active nomination for that gas day range, or has been replaced by a later nomination.	Display Only
Confirmation Text	The text sent as an email when the nomination was recorded.	Display Only
Nomination Detail	A spreadsheet containing the nomination details. Downloaded as an Excel spreadsheet.	Display Only

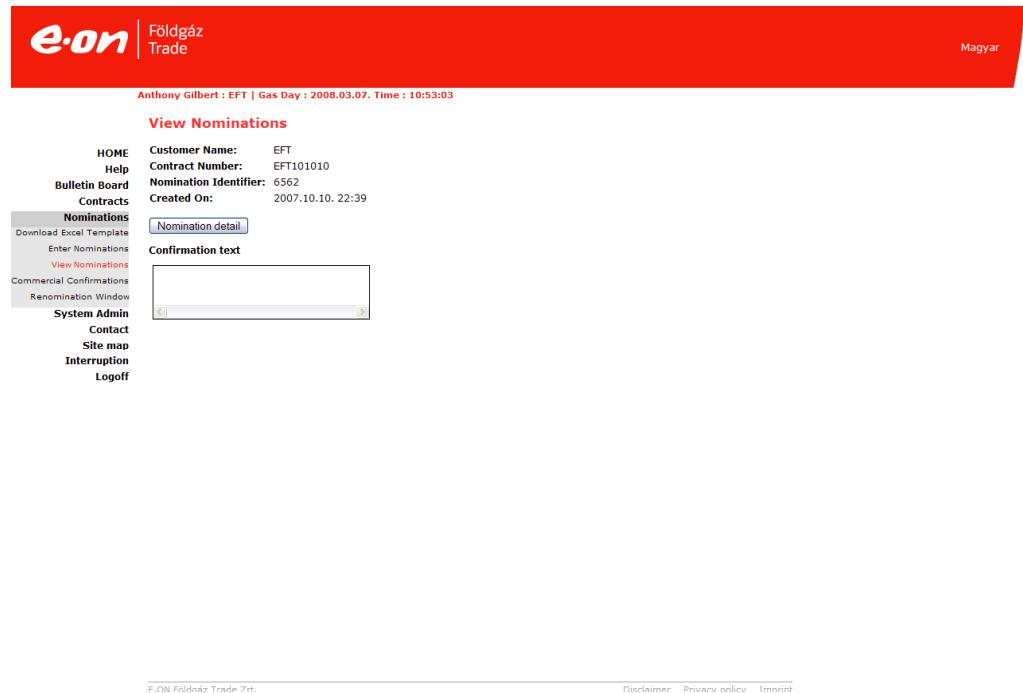
3.10.4 Screen Sample

3.10.4.1 Nomination List



Contract Number	Nomination Identifier	Start Date	End Date	Timestamp	Status	View
EFT101010	6562	2007.10.31.	2007.10.31.	2007.10.10. 22:39	Active	View
	6483	2007.09.28.	2007.09.28.	2007.09.27. 10:06	Active	View
	6482	2007.09.28.	2007.09.28.	2007.09.27. 10:01	Inactive	View

3.10.4.2 Nomination Detail



Customer Name: EFT
 Contract Number: EFT101010
 Nomination Identifier: 6562
 Created On: 2007.10.10. 22:39

3.11 EXCEL TEMPLATE

3.11.1 Description

A screen enabling a customer with a valid and active contract to download an excel template for a specified contract. Details of all active contracts are displayed in a record list with a link that allows download of the associated Excel template.

3.11.2 Actors

This screen is to be used by EFT customers that have a valid active contract with EFT.

3.11.3 Attributes Recorded

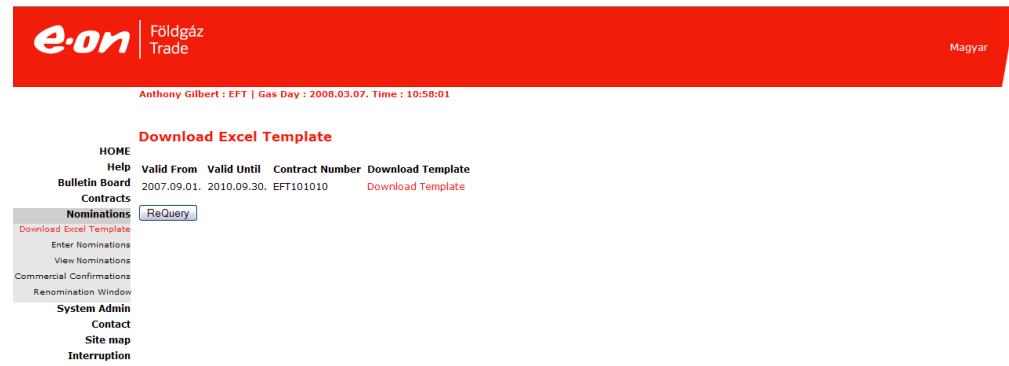
N/A

3.11.4 Validation

Only customers with a valid contract on the specified gas day will be able to generate an excel template.

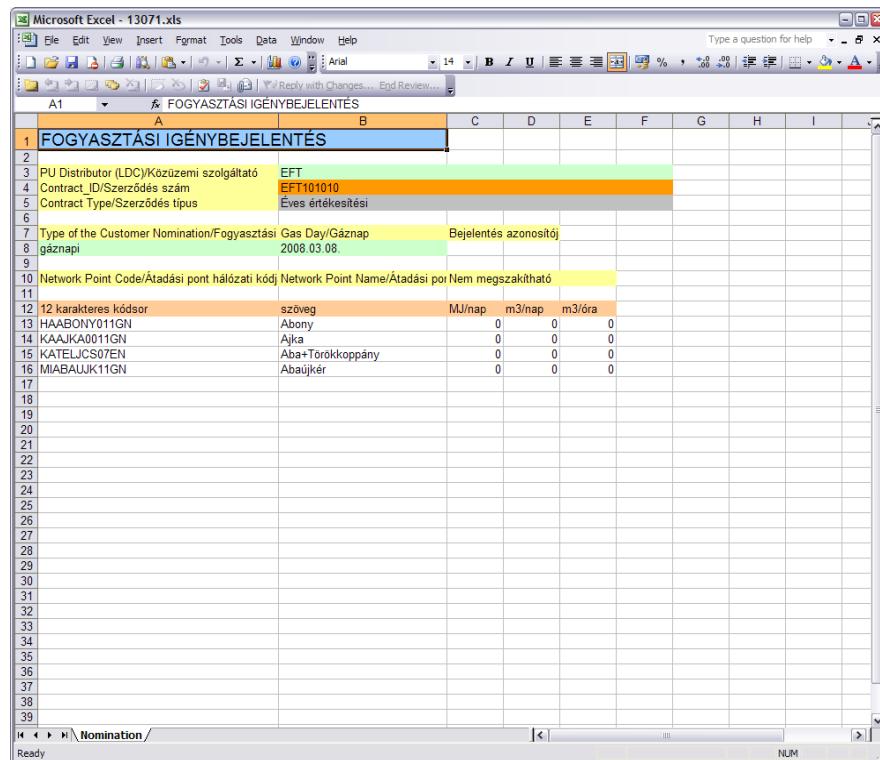
3.11.5 Screen Sample

3.11.5.1 Download Excel Template Screen



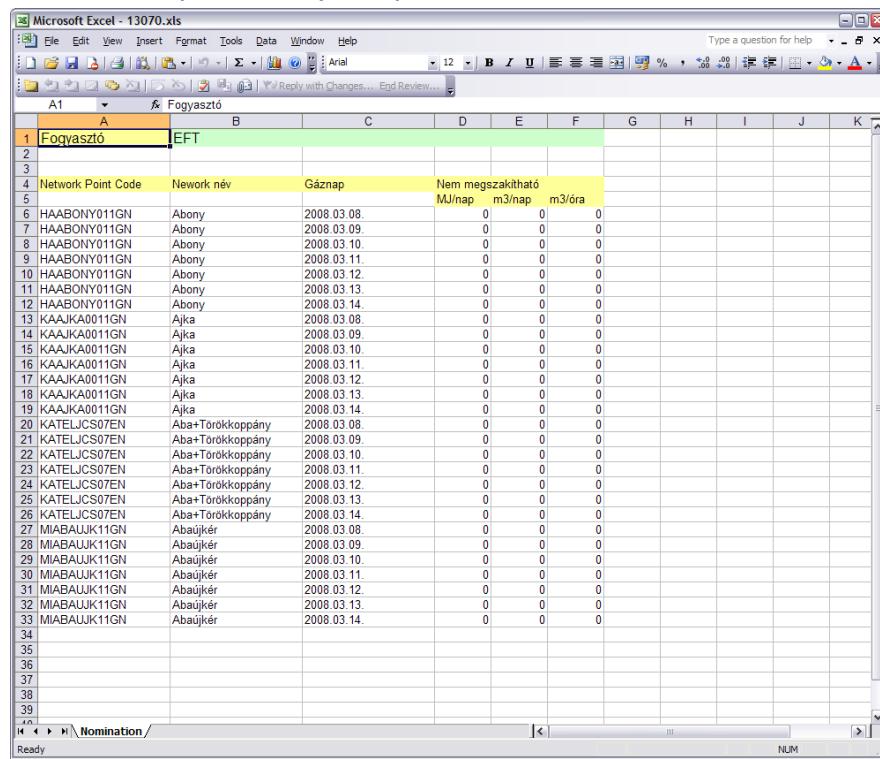
The screenshot shows a web interface for E.ON Földgáz Trade. At the top, there's a red header bar with the E.ON logo and the text 'Földgáz Trade'. On the right side of the header, it says 'Magyar'. Below the header, there's a navigation menu with links for 'HOME', 'Help', 'Bulletin Board', 'Contracts', 'Nominations', 'System Admin', and several sub-links under 'Nominations' like 'Enter Nominations', 'View Nominations', 'Commercial Confirmations', and 'Renomination Window'. In the center, there's a main content area with a table showing 'Valid From', 'Valid Until', 'Contract Number', and a 'Download Template' button. The 'Download Template' button is highlighted with a red box. At the bottom of the page, there's a footer with links for 'E.ON Földgáz Trade Zrt.', 'Disclaimer', 'Privacy policy', and 'Imprint'.

3.11.5.2 Single Gas Day Template



FOGYASZTÁSI IGÉNYBEJELENTÉS					
3 PU Distributor (LDC)/Közüzemi szolgáltató	EFT				
4 Contract ID/Szerződés szám	EFT101010				
5 Contract Type/Szerződés típus	Éves értékesítési				
7 Type of the Customer Nomination/Fogyasztási	Gas Day/Gáznap	Bejelentés azonosítój			
8 gáznapi		2008.03.08.			
10 Network Point Code/Átadási pont hálózati kódj	Network Point Name/Átadási por	Nem megszakítható			
12 12 karakteres kódjáról	szöveg	MJ/nap	m3/nap	m3/óra	
13 HAABONY011GN	Abony	0	0	0	
14 KAAJKA0011GN	Ajka	0	0	0	
15 KATELJCS07EN	Aba+Törökkoppány	0	0	0	
16 MIABAUJK11GN	Abaújkér	0	0	0	

3.11.5.3 Multiple Gas Day Template



Fogyasztó					
1 Fogyasztó	EFT				
4 Network Point Code	Nework név	Gáznap	Nem megszakítható		
			MJ/nap	m3/nap	m3/óra
6 HAABONY011GN	Abony	2008.03.08.	0	0	0
7 HAABONY011GN	Abony	2008.03.09.	0	0	0
8 HAABONY011GN	Abony	2008.03.10.	0	0	0
9 HAABONY011GN	Abony	2008.03.11.	0	0	0
10 HAABONY011GN	Abony	2008.03.12.	0	0	0
11 HAABONY011GN	Abony	2008.03.13.	0	0	0
12 HAABONY011GN	Abony	2008.03.14.	0	0	0
13 KAAJKA0011GN	Ajka	2008.03.08.	0	0	0
14 KAAJKA0011GN	Ajka	2008.03.09.	0	0	0
15 KAAJKA0011GN	Ajka	2008.03.10.	0	0	0
16 KAAJKA0011GN	Ajka	2008.03.11.	0	0	0
17 KAAJKA0011GN	Ajka	2008.03.12.	0	0	0
18 KAAJKA0011GN	Ajka	2008.03.13.	0	0	0
19 KAAJKA0011GN	Ajka	2008.03.14.	0	0	0
20 KATELJCS07EN	Aba+Törökkoppány	2008.03.08.	0	0	0
21 KATELJCS07EN	Aba+Törökkoppány	2008.03.09.	0	0	0
22 KATELJCS07EN	Aba+Törökkoppány	2008.03.10.	0	0	0
23 KATELJCS07EN	Aba+Törökkoppány	2008.03.11.	0	0	0
24 KATELJCS07EN	Aba+Törökkoppány	2008.03.12.	0	0	0
25 KATELJCS07EN	Aba+Törökkoppány	2008.03.13.	0	0	0
26 KATELJCS07EN	Aba+Törökkoppány	2008.03.14.	0	0	0
27 MIABAUJK11GN	Abaújkér	2008.03.08.	0	0	0
28 MIABAUJK11GN	Abaújkér	2008.03.09.	0	0	0
29 MIABAUJK11GN	Abaújkér	2008.03.10.	0	0	0
30 MIABAUJK11GN	Abaújkér	2008.03.11.	0	0	0
31 MIABAUJK11GN	Abaújkér	2008.03.12.	0	0	0
32 MIABAUJK11GN	Abaújkér	2008.03.13.	0	0	0
33 MIABAUJK11GN	Abaújkér	2008.03.14.	0	0	0

3.12 SEND COMMERCIAL CONFIRMATION

3.12.1 Description

A screen to allow manual generation and sending of Commercial Confirmation Messages.

Generating the commercial confirmation is a process that takes place from 8:00 until 10:00 and from 20:00 until 24:00 D-1 and at any other time when the EFT administrator on duty either requests for renominations or modifies the submission deadline of the nominations to allow a nomination for the current gas day to be entered manually. The confirmation email will take the form of a brief message with details of the commercial confirmation held in an attached Excel spreadsheet or XML style spreadsheet, dependant on a system configuration customer setting.

A commercial confirmation is made and completed officially if it is published and made available on the View Confirmation screen. This is backed up with an email to the customer which is digitally signed to assure its authenticity, and the attached confirmation is timestamped at the time of generation which may be authenticated at a later date.

On entry into the screen, gas day may be selected which then produces a list of all active customers (customers with an active contract) and the status of the last entered nomination (if entered) for the selected gas day.

Should a nomination not be present, or the last entered nomination is invalid (in that the rules to verify the nomination do not evaluate to true), the customer and contract will be highlighted as being invalid; otherwise, the details of the valid nomination will be displayed. Should the nomination be valid, the option to accept the nomination will be given which will produce a commercial confirmation which matches the nomination. Should the nomination be invalid or no nomination present, the only option available will be to force the confirmation using the rules defined against the contract.

Upon selection and submission, the contracts that have been selected for either accept or force will have a commercial confirmation generated for them. At this stage the confirmation is only available for review by the user that has generated the confirmation. The user will be able to download the confirmation spreadsheet by selecting a link next to the customer and contract. The confirmation can then either be approved which releases it to the customer both online and via email; or may be deleted.

Customers are able to configure who receives the commercial confirmation email by use of the message recipients' screen.

3.12.2 Actors

This screen is to be used by the EFT users and internal administrators.

3.12.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Gas Day, Mandatory	Gas day for which to create the commercial confirmations for.	Input
Customer Name	The name of the customer.	Display Only

Attribute Name	Description	Allowed Actions
Contract Number	The identifier of the customer contract active on the supplied gas day.	Display Only
Nomination Details	<p>Should a nomination be present for the gas day in question, the following nomination details will be displayed:</p> <ul style="list-style-type: none"> - Nomination Identifier - Created Date - Gas Day Start - Gas Day End - Status (Valid/Invalid) <p>If there is no nomination present for the specified gas day, these fields will be overwritten with a message stating that and the date of the last entered nomination.</p>	Display Only
Accept/Force	Checkboxes to signify whether a commercial confirmation should be generated for the context contract. These checkboxes are mutually exclusive and only one is available for selection based on the status of the nomination.	Checked/Unchecked.
Submit Button	Button to generate commercial confirmation for the selected gas day and contracts that have been chosen with either accept or force.	Click

3.12.4 Validation

On entry to the screen a gas day must be specified.

Further details surrounding the confirmation process are available in Appendix A.

3.12.5 Screen Samples

3.12.5.1 Commercial confirmation entry screen

On entry into the confirmation screen, a gas day must be supplied before proceeding.

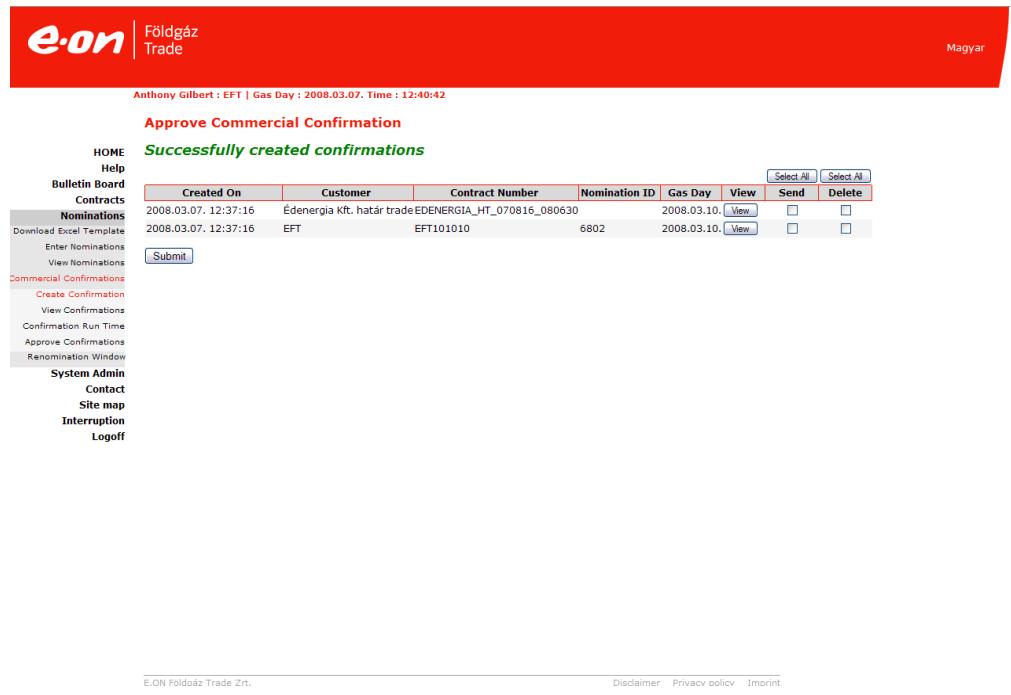
3.12.5.2 Commercial confirmation generation screen

Following entry of a gas day, the nominations may be queried back for all active contracts. These may then be used to generate commercial confirmations.

Customer	Contract Number	Nom Identifier	Nom created on	Gas day from	Gas day to	Valid?	Accept	Force
EDENERGIA Kft. határ trade	EDENERGIA_HT_070816_080630					Invalid	<input type="checkbox"/>	<input type="checkbox"/>
EFT	EFT101010	6802	2008.03.07. 12:33:38	2008.03.10.	2008.03.10.	Valid	<input type="checkbox"/>	<input type="checkbox"/>
FOGÁZ Gázkereskedelmi kft.	FOGAZ_KER_HT_070701_080630					Invalid	<input type="checkbox"/>	<input type="checkbox"/>

3.12.5.3 Commercial Confirmation Acceptance Screen

Following creation of the confirmations, the user is able to review, accept (and send) or delete the generated commercial confirmation.



Anthony Gilbert : EFT | Gas Day : 2008.03.07. Time : 12:40:42

Approve Commercial Confirmation

Successfully created confirmations

Created On	Customer	Contract Number	Nomination ID	Gas Day	View	Send	Delete
2008.03.07. 12:37:16	Édenergia Kft. határ trade	EDENERGIA_HT_070816_080630	2008.03.10.	<input type="button" value="View"/>	<input type="button" value="Send"/>	<input type="button" value="Delete"/>	
2008.03.07. 12:37:16	EFT	EFT101010	6802	2008.03.10.	<input type="button" value="View"/>	<input type="button" value="Send"/>	<input type="button" value="Delete"/>

Commercial Confirmations

- [Create Confirmation](#)
- [View Confirmations](#)
- [Confirmation Run Time](#)
- [Approve Confirmations](#)
- [Renomination Window](#)

System Admin

- [Contact](#)
- [Site map](#)
- [Interruption](#)
- [Logoff](#)

E.ON Földgáz Trade Zrt. [Disclaimer](#) [Privacy policy](#) [Imprint](#)

3.13 Approve Confirmation

3.13.1 Description

A screen allowing review, approval or deletion of previously generated and unapproved commercial confirmations. These confirmations may have been manually generated or automatically generated but not sent.

The screen automatically queries on entry displaying all unapproved confirmation messages.

3.13.2 Actors

This screen is to be used by the EFT users and internal administrators.

3.13.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Created On	The date and time that the commercial confirmation was created.	Display Only
Customer Name	The name of the customer	Display Only

Attribute Name	Description	Allowed Actions
	associated with the commercial confirmation.	
Contract Number	The active contract in place when the confirmation was created.	Display Only
Nomination ID	The nomination identifier for the nomination in place for the gas day of the commercial confirmation may be blank if no nomination was present.	Display Only
Gas Day	The gas day for which the confirmation was generated.	Display Only
View	Link to download a copy of the commercial confirmation.	Button
Send/Delete	Checkboxes to signify whether the commercial confirmation should be sent or deleted. These checkboxes are mutually.	Check Box
Submit	Submission button	Button

3.13.4 Validation

Not applicable.

3.13.5 Screen Samples

3.13.5.1 Approve Commercial Confirmation

The screen automatically queries on entry displaying all unapproved commercial confirmation messages.

e-on Földgáz Trade Magyar

Anthony Gilbert : EFT | Gas Day : 2008.03.07. Time : 16:19:14

Approve Commercial Confirmation

	Created On	Customer	Contract Number	Nomination ID	Gas Day	View	Send	Delete
Bulletin Board	2008.03.07. 15:07:09	Édenergia Kft. határ trade	EDENERGIA_HT_070816_080630		2008.03.10.	View	<input type="checkbox"/>	<input type="checkbox"/>
Contracts	2008.03.07. 16:00:04	Édenergia Kft. határ trade	EDENERGIA_HT_070816_080630		2008.03.07.	View	<input type="checkbox"/>	<input type="checkbox"/>
Nominations	2008.03.07. 15:07:09	EFT	EFT101010	6802	2008.03.10.	View	<input type="checkbox"/>	<input type="checkbox"/>
Download Excel Template	2008.03.07. 15:07:09	FOGÁZ Gázkereskedelmi Kft.	FOGÁZ_KER_HT_070701_080630		2008.03.10.	View	<input type="checkbox"/>	<input type="checkbox"/>

[Select All](#) [Select All](#)

[Submit](#)

[Create Confirmation](#)
[View Confirmations](#)
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3.14 Automated Commercial Confirmation

3.14.1 Description

A screen controlling automation of the commercial confirmation process.

On entry the screen auto-queries any confirmation run times that are present, and allows entry of a new confirmation run time. When a confirmation run time is created, a background process is created to run at the specified time. This background process automatically runs the usual commercial confirmation process for the next gas day. A flag on the customer record controls whether the confirmation is automatically sent or is left for manual review and sending. The process also writes to a log file, available from a link on the screen, to allow review of all previous automated runs.

3.14.2 Actors

This screen is to be used by the EFT users and internal administrators.

3.14.3 Attributes Recorded

The following lists the attributes to be recorded on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Time, hour and minute	The time at which the commercial confirmation should run.	Input
Description	A description to attach to the confirmation.	Input, Update
Log Messages	A hyperlink to an additional screen giving details of all previous runs	Select

3.14.4 Validation

The screen auto-queries on entry, existing jobs can be deleted.

3.14.5 Screen Samples

3.14.5.1 Confirmation Run Time



Confirmation Run Time

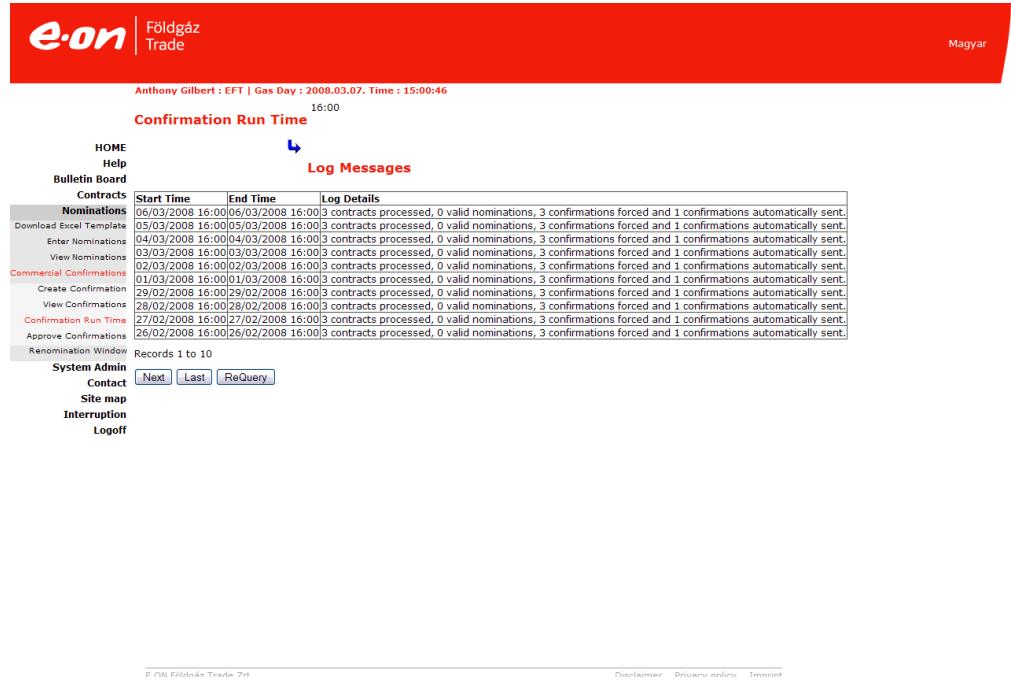
HOME	Help	Run Time Notes	Delete?
Bulletin Board	12:00	Midday Run	<input type="checkbox"/> Log Messages
Contracts	16:00	Evening Run	<input type="checkbox"/> Log Messages

Nominations
Download Excel Template Records 1 to 2
Enter Nominations [Update](#) [Revert](#) [New](#) [ReQuery](#)
View Nominations

Commercial Confirmations
Create Confirmation
View Confirmations
Confirmation Run Time
Approve Confirmations
Renomination Window

System Admin
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3.14.5.2 Confirmation Run Log



Anthony Gilbert : EFT | Gas Day : 2008.03.07. Time : 15:00:46

16:00 Confirmation Run Time

Log Messages

	Start Time	End Time	Log Details
Nominations	06/03/2008 16:00:06/03/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	05/03/2008 16:00:05/03/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	04/03/2008 16:00:04/03/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	03/03/2008 16:00:03/03/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	02/03/2008 16:00:02/03/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	01/03/2008 16:00:01/03/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	29/02/2008 16:00:29/02/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	28/02/2008 16:00:28/02/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	27/02/2008 16:00:27/02/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	
	26/02/2008 16:00:26/02/2008 16:00:3	contracts processed, 0 valid nominations, 3 confirmations forced and 1 confirmations automatically sent.	

Records 1 to 10

System Admin

Contact Next Last ReQuery

Site map Interruption Logoff

Disclaimer Privacy policy Imprint

3.15 View Commercial Confirmation

3.15.1 Description

A screen to allow a customer to review their approved commercial confirmations. Upon entry to the screen, the last ten commercial confirmations are auto-queried for the current contract and displayed in date order; however, the query may be re-run and further constrained by specifying query criteria.

Commercial confirmations listed can be than downloaded in format of Excel spreadsheets.

3.15.2 Actors

This screen is primarily to be used by the customer; however, there may be circumstances where EFT can use this screen on behalf of the customer.

3.15.3 Attributes

The following lists the attributes to be displayed on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Customer Name	The name of the customer.	Display Only
Contract Number	The contract in place at the time of the confirmation.	Display Only
Nomination Identifier	If the confirmation was purely acceptance of a nomination, the nomination identifier.	Display Only
Gas Day	The gas day to which the	Display Only

Attribute Name	Description	Allowed Actions
	commercial confirmation pertains to.	
Confirmation Sent	The date and time that the confirmation was sent	Display Only
View link	Hyperlink to the details screen	Clickable link.

Upon selecting the clickable link to the details screen the following attributes will be visible.

Attribute Name	Description	Allowed Actions
Confirmation ID	The confirmation identifier	Display Only
Customer Name	The customer name	Display Only
Contract Number	The contract in place at the time of the confirmation.	Display Only
Nomination ID	Unique Identifier of the specific commercial confirmation	Display Only
Confirmation Button	A button when clicked will download the commercial confirmation in a either and XML or Excel format (dependant on customer settings)	Clickable
Timestamp Button	A button when clicked will download the timestamp for the commercial confirmation in a binary format. This is for use with the timestamp verification tool only.	Clickable
Confirmation Text	The text sent along with the commercial confirmation, inherited from the customer details.	Display Only
Download Link	Link to download the timestamp verification tool.	Selectable

3.15.4 Validation

None identified at this point.

3.15.5 Screen Sample

3.15.5.1 View Commercial Confirmations – Record List



Anthony Gilbert : EFT | Gas Day : 2008.03.10. Time : 10:22:24

View Commercial Confirmations

HOME	Customer Name	Contract Number	Nomination Identifier	Gas Day	Confirmation Sent	View
Bulletin Board	EFT	EFT101010		2008.03.09.	2008.03.09. 16:00:06	View
Contracts	EFT	EFT101010		2008.03.09.	2008.03.09. 12:00:05	View
Nominations	EFT	EFT101010		2008.03.08.	2008.03.08. 12:00:05	View
Download Excel Template	EFT	EFT101010		2008.03.08.	2008.03.08. 16:00:03	View
Enter Nominations	EFT	EFT101010		2008.03.07.	2008.03.07. 12:00:05	View
View Nominations	EFT	EFT101010		2008.03.07.	2008.03.07. 16:00:05	View
Commercial Confirmations	EFT	EFT101010		2008.03.06.	2008.03.06. 11:00:15	View
Create Confirmations	EFT	EFT101010		2008.03.05.	2008.03.05. 15:00:10	View
View Confirmations	EFT	EFT101010		2008.03.05.	2008.03.05. 11:00:11	View

Confirmation Run Time Records 1 to 10

Approve Confirmations [Next](#) [Last](#) [ReQuery](#) [Count](#)

Renomination Window [Query](#)

System Admin [Query](#)

Contact

Site map

Interruption

Logoff

Magyar

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3.15.5.2 View Commercial Confirmations – Details



Anthony Gilbert : EFT | Gas Day : 2008.03.10. Time : 10:23:04

View Commercial Confirmation Details

HOME	Confirmation ID	11496
Help	Customer Name	EFT
Bulletin Board	Contract Number	EFT101010
Contracts	Nomination Identifier	There are no nominations for the chosen gas day
Nominations	Confirmation sent	2008.03.09. 16:00:06
System Admin	Confirmation Timestamp	
Contact	Confirmation text	
Site map		
Interruption		
Logoff		

Confirmation authenticity may be validated by downloading the following utility [here](#) and running with the above confirmation and timestamp.

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3.16 VALIDATE CONFIRMATION TOOL

3.16.1 Description

A tool which, when downloaded, will verify the authenticity and the time at which the commercial confirmation was sent. The utility takes the commercial confirmation commercial file and timestamp file as input and will validate if the two match.

3.16.2 Actors

This screen is to be used by customers of the nomination system.

3.16.3 Attributes Recorded

The verification utility accepts the following parameters:

Attribute Name	Description	Allowed Actions
Confirmation file	The commercial confirmation file to verify, entry via a pop-up file chooser.	Input
Timestamp File	The timestamp file with which to verify the commercial confirmation file, entry via a pop-up file chooser.	Input
Verify	Button which, when pressed, will validate that the confirmation file matches the timestamp supplied. Is only available for selection once both files have been supplied.	Click

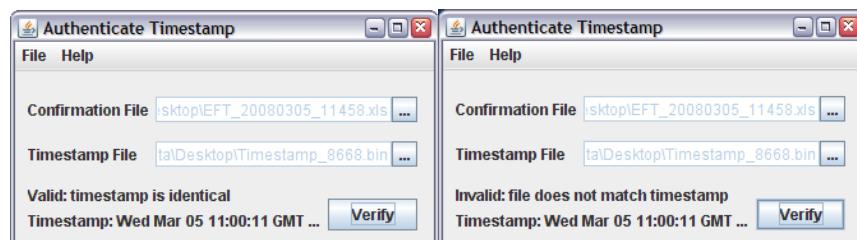
3.16.4 Validation

Both files have to be supplied before the verify button can be pressed.

3.16.5 Screen Samples

3.16.5.1 Commercial confirmation entry screen

The verification utility will either state valid for matching files, or invalid for files that do not match as detailed below.



3.17 MESSAGE SUBSCRIPTION

3.17.1 Description

A screen to allow users of the system (typically customer administrative users) to decide which users should receive messages generated by the system.

3.17.2 Actors

This screen is to be used an internal or external admin user.

3.17.3 Attributes

The following lists the attributes to be displayed on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
User Name	The name of the user within the system.	Display Only.
Email Address	Email address of the user.	Display Only.
Phone Number	Phone number of the user.	Display Only.
Subscription Classification	The classification of the messages that may be received.	Display Only.
Check boxes	For each subscription classification type and each user and for each communication method (email/sms). The SMS checkbox may only be selected if the related email checkbox is already selected.	Checked/Un-checked

3.17.4 Validation

The SMS checkbox for a particular customer and subscription classification may only be selected if the related email checkbox is also selected.

3.17.5 Screen Sample

The following is an example screenshot of the Message Subscription screen.

3.17.5.1 Message Subscriptions



Földgáz
Trade

Magyar

Anthony Gilbert : EFT | Gas Day : 2008.03.07. Time : 14:54:13

Message Subscriptions

Username	Email Address		Message types					
			System	Confirmation		Notification		Service
				Receipt	Acceptance	Commercial		
advantica	anthony.gilbert@advanticagroup.com	Email	<input checked="" type="checkbox"/>					
	447831709056	SMS	<input type="checkbox"/>					
		Email	<input type="checkbox"/>					
		SMS	<input type="checkbox"/>					
		Email	<input type="checkbox"/>					
		SMS	<input type="checkbox"/>					

[Submit Changes](#)

System Event Contacts

[Message Subscription](#)

Change Customer

System

User

Advanced

Maintain Contact Information

Contact

Site map

Interruption

Logoff

3.18 MAINTAIN SERVICE INTERRUPTION

3.18.1 Description

A screen to allow creation and modification of interruptions, thereby allowing selection of which customers may have service restrictions placed upon them and at which contracted network points.

The default values displayed in the grid equate to the current contracted maximum values, these may be modified to another value and will override the maximum (and potentially contracted and minimum) values for the duration of the interruption.

This means that any nominations entered during the interruption period and any confirmations generated will utilise the interruption values, for affected customers, instead of the contractual limits.

This screen may also be used to query back existing interruptions, in the same format, by specifying a date range.

This screen also provides functionality to save an interruption as a template, thereby allowing the interruption values to be saved and applied (as a template) to an interruption at a later date.

This screen is expected to function in a similar manner to the maintain contracts screen.

3.18.2 Attributes

The following table lists the attributes to be displayed on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Interruption ID, Mandatory, Unique	The interruption identifier	Input
Gas Day Start, Mandatory	The gas day on which the interruption should begin.	Input, Update
Gas Day End, Not Mandatory	The gas day which the interruption should cease.	Input, Update
Notes, Not Mandatory	Free format test box allowing entry of any related information against the interruption.	Input, Update
Load/Delete Template	Button allowing a contract template to be loaded or deleted.	Selectable
Save Template	Button allowing the current interruption to be saved as a template.	Selectable
(Re)Send Messages	Button that, when pressed, will send messages to all interrupted customers.	Selectable

Attributes displayed in the matrix are as follows:

Attribute Name	Description	Allowed Actions
Customer Name	The customers that, for the gas day in question, have an element of their contract as interruptible capacity. Display the short name only.	Populated
Network Point Name	The network point name.	Populated
Network Point Code	The network point code.	Populated
Interruptible Categories	The interruptible categories held by a contract against the network point. This will display all interruptible categories held in the system that are currently being used by active contracts. Details displayed under this heading are:	Populated
Category: Interruption Type Code	The interruption type associated with this category.	Populated
Category: Contracted	The current contracted maximum value for the customer, network point and	Populated, Updateable

Amount	category. This field may be updated if the interruption has not started. The limits imposed by the interruption type will be used to validate this interruption.	
Category: Confirmed Quantity	The value of the last commercial confirmation prior to the interruption for this category.	Populated
Sum	The summation of each category, displayed as a total at the bottom.	Populated
Check Box	A check box is used to indicate whether the customer is interrupted and should be included when an interruption message is sent.	Selection
Select all	At the heading of the columns an additional box is needed to select all the elements by click into it. To click into it again should not mark any elements.	Selection

Data will be ordered by customer name then network code.

3.18.3 Validation

Entering of all mandatory fields will be enforced.

Gas day start may only be modified if not in the past.

Gas day end may only be modified if NULL or in the future or the current gas day and to a future date or current date.

Gas day end must occur on or after gas day start.

An interruption cannot be created that spans more than one contract period. For example, if a customer has monthly contracts, the interruption may only last until the end of any month.

Conversely, during an interruption, modifications to an existing contract should be validated to ensure it doesn't infringe any constraints enforced by the interruption.

Loading an existing template will load the values from the previous interruption template into the current screen. Only valid templates may be loaded.

Saving a template will allow the current interruption to be saved as a template. This will remain valid for use until the contracts associated with the template lapse or are subject to change. Template identifiers should be unique.

A value for interruption may only be entered where the intersection on the matrix is valid – i.e. the customer has contracted service at the specified network point and that the customer has an active interruptible contract there. Values may only be updated when the interruption is not active. Values entered must fall between the maximum and minimum contracted values.

When creating a new interruption, check the number of interruptions that have been enacted on each category over the past gas year. If the number of interruptions exceed the max interruption parameter a warning message should be displayed.

When creating a new interruption, if the period of the interruption extends more than the maximum number of days assigned to the interruption type, display a warning message.

When creating a new interruption, if the period of all interruptions for the current gas year exceeds the maximum number of days assigned to the interruption type, display a warning message.

Only one interruption may be enacted at any point in time, no overlaps are tolerated.

An interruption may only span whole gas days – there is no time element; therefore the following example:

Start: 01.01.2008 End 01.01.2008

will have the impact of having an interruption for the duration of a gas day, from the start of gas day 01.01.2008 to the end of the gas day 01.01.2008.

3.18.4 Processing

Once the interruption is saved, any contracted quantities having been marked as being interrupted will be interrupted for the duration of the interruption.

This will affect any new nominations entered and any commercial confirmations sent by effectively reducing the MAX contracted value (and the CTR value if the interrupted value is lower) for the duration of the interruption.

The presence of an active interruption is evident from the nominations screen where interrupted values are highlighted, and on the confirmation spreadsheet where interrupted values are also highlighted.

Furthermore, any customer marked as being interrupted will receive a message from the system when the interruption messages are sent. The content of the message is as defined on the customer record, with the email having an attached spreadsheet detailing the impact of the interruption.

If the interruption is made for the current gas day, a renomination window will need to be manually opened, following which a manual generation of a commercial confirmation.

During the period of interruption, on a daily basis, a background process checks that the maximum number of days specified on the interruption type has not been breached. Provide an email alert one day before the interruption is to expire to all EFT users (Admin, User, KAM).

3.18.5 Screen Sample

The following screenshots relate to the Maintain Service Interruption screen and sub-screens.

3.18.5.1 Maintain Service Interruption

Customer	Network Point	Megszakítható 10 napos			Megszakító 10 napos
		Interruption Type Code	Contracted Amount	Confirmed Quantity	
CSERT	VECSEPEL1VEN	10 napos	100000	0	<input type="checkbox"/>
DDC	VEDCM00011GN	10 napos	0	0	<input type="checkbox"/>
DDGÁZ	GETELJCS04EN	10 napos	999	0	<input type="checkbox"/>
DDGÁZ	GETELJCS07EN	10 napos	50000	0	<input type="checkbox"/>
DERT	KATELJCS09EN	10 napos	0	0	<input type="checkbox"/>
EMCS	KEOROSHAA2GN	10 napos	9000	68000	<input type="checkbox"/>
GE	VEFOT00011GN	10 napos	4500	0	<input checked="" type="checkbox"/>
TBER	KATATABA21GN	10 napos	0	0	<input type="checkbox"/>
THE	MITHE00012GN	10 napos	0	0	<input type="checkbox"/>
THE	MITHE00013GN	10 napos	0	0	<input type="checkbox"/>
Total			164499	68000	

3.18.5.2 Maintain Service Interruption – Load/Delete Template

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High Level Design Documentation



3.18.5.3 Maintain Service Interruption – Save Template

The screenshot shows a web-based application interface for E.ON Földgáz Trade. At the top, the E.ON logo and 'Földgáz Trade' are visible. The top right corner shows the text 'Magyar'. The top bar includes the text 'Anthony Gilbert : EFT | Gas Day : 2008.03.10. Time : 12:14:33'. The main content area is titled 'Save Template' and contains a form with fields for 'Name' (set to 'GE_080501') and 'Template Name'. Below these fields is a large empty text area for notes. A navigation menu on the left includes links for 'HOME', 'Help', 'Bulletin Board', 'Contracts', 'Nominations', 'System Admin', 'Contact', 'Site map', 'Interruption' (which is selected and highlighted in grey), and 'Logoff'. Under 'Interruption', there are links for 'Maintain Interruption', 'Types', 'Maintain Service Interruption', 'View Interruption Message', and 'View Interruptions'. At the bottom of the page, there are links for 'E.ON Földgáz Trade Zrt.', 'Disclaimer', 'Privacy policy', and 'Imprint'.

3.18.5.4 Maintain Service Interruption – (Re)Send Messages

The screenshot shows the same web-based application interface for E.ON Földgáz Trade. The top bar and navigation menu are identical to the previous screenshot. The main content area is titled 'Send Interruption Message' and displays a message: 'Name: GE_080501' and 'Results: Messages Sent - Review message log for details'. Below this message is a 'Back' button. The navigation menu on the left is identical to the previous screenshot. At the bottom of the page, there are links for 'E.ON Földgáz Trade Zrt.', 'Disclaimer', 'Privacy policy', and 'Imprint'.

3.19 VIEW INTERRUPTIONS

3.19.1 Description

A screen to report back on the impact of interruptions over a specified time period.

3.19.2 Attributes

The following is the query criteria that may be specified. If nothing is entered, details of all interruptions will be returned:

Attribute Name	Description	Allowed Actions
Gas Day From, Gas Day TO	The gas day range from which interruptions should be reported on.	Query
Category	The contractual category to restrict which interruptions are returned by.	Query
Network Point	The network point to restrict which interruptions are returned by.	Query
Customer	Allows entry of a single customer name, via the use of a list-of-values.	Query

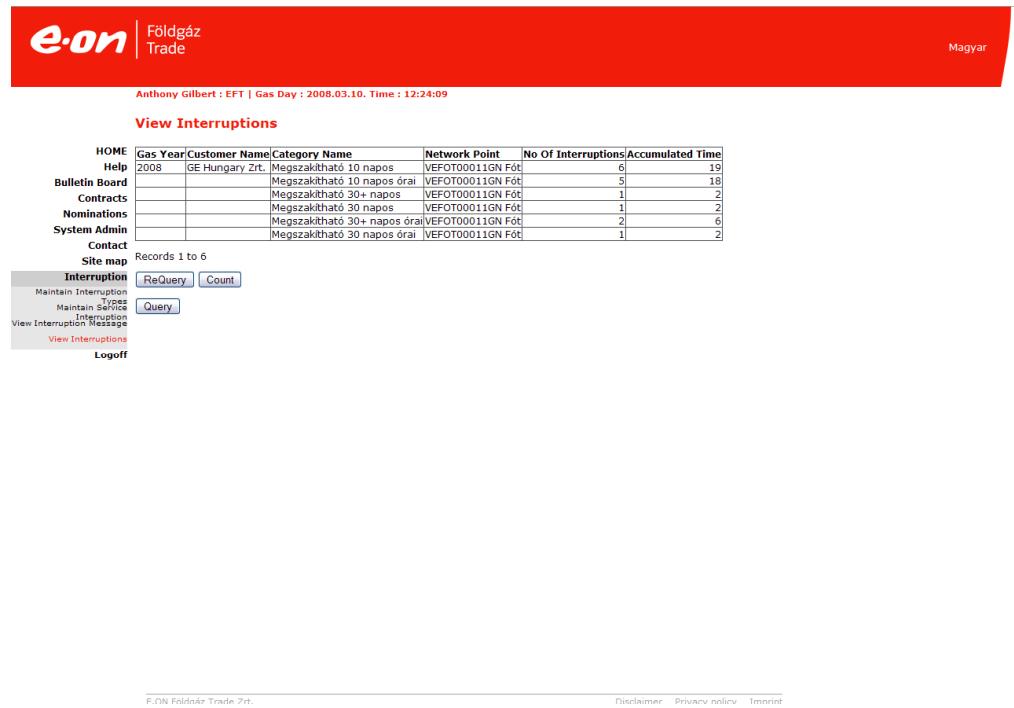
The following table lists the attributes to be displayed on this screen:

Attribute Name	Description	Allowed Actions
Gas Year	The gas year to which the data below pertains to.	N/A
Customer Name	The customer name.	N/A
Category Name	The category name.	N/A
Network Point	The network point, both code and name	N/A
Total Number of interruptions	The total number of interruptions that have affected this customer between the two dates specified on the query screen.	N/A
Accumulated time	The total accumulated time of interruptions that has taken place between the two specified dates. This will be reported back in days.	N/A

Data will be ordered by customer name.

3.19.3 Screen Sample

The following is an example screenshot of the View Interruptions screen. This screenshot will be used as the basis of this module.



3.20 MAINTAIN INTERRUPTION TYPE

3.20.1 Description

A screen allowing entry of interruption types which may then be used to categorise interruptions and enforce interruption limits.

3.20.2 Actors

This screen is to be used by the EFT User and Administrator.

3.20.3 Attributes

The following table lists the attributes to be displayed on this screen, along with the relevant actions associated with those attributes:

Header Details:

Attribute Name	Description	Allowed Actions
Interruption Type Code, Mandatory	The code for the interruption type. Will be displayed on the maintain service interruption screen.	Input, Update
Interruption Type Description, Mandatory	The description for the interruption type. Information Only.	Input, Update

Attribute Name	Description	Allowed Actions
Related Category, Mandatory	<p>The category that is related to the interruption type, selected from a list of values. On creation of a new interruption type, only unassigned categories will be available, these being categories being marked as interruptible.</p> <p>Selection of this category will determine which customers are displayed in the detail block based on active contracts utilising this category.</p>	Input.

Details:

Attribute Name	Description	Allowed Actions
Customer Name	The name of the customer	Populated
Network Point	The Network Point Code	Populated
Maximum number of interruptions, Mandatory	The maximum number of interruptions that may be enacted on the interruptible categories linked to the interruption type	Input, Update
Maximum days of interruptions, Mandatory	The maximum continuous length (number of days) of all interruptions within a gas year.	Input, Update
Maximum interruption length	The maximum length of a single interruption.	Input, Update

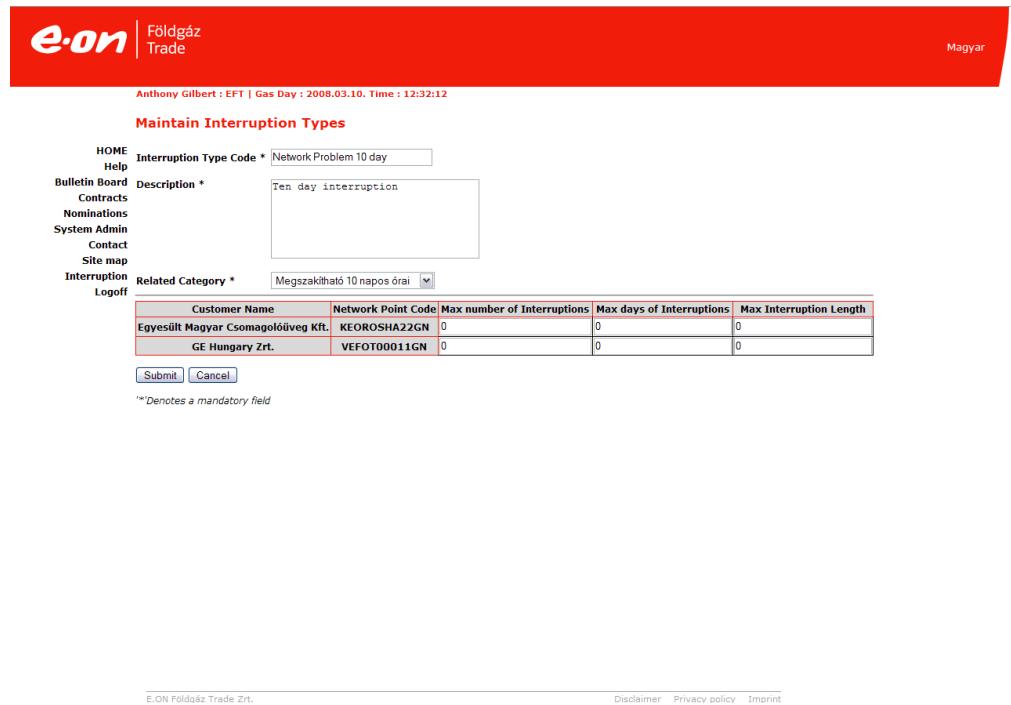
Details will be ordered by customer name and network point.

Customer name and network point are pre-populated on creation of a new record by selecting all customers and network point from contracts having the related interruptible category defined against them, and that are active at time of creation. The interruption type will become invalid (and not be able to be used) when any of the contracts used to generate the interruption types lapse or are modified.

The above maximum parameters are active for the duration of the gas year (1st July to 31st June) or the duration of the customer contract, whichever is shortest.

3.20.4 Screen Sample

The following is an example screenshot of the Maintain Interruption Type screen.



Anthony Gilbert : EFT | Gas Day : 2008.03.10, Time : 12:32:12

Maintain Interruption Types

HOME Interruption Type Code * Network Problem 10 day

Help Description * Ten day interruption

Bulletin Board Related Category *

Contracts Megszakítható 10 napos órai

Nominations

System Admin

Contact

Site map

Interruption

Logoff

Customer Name Network Point Code Max number of Interruptions Max days of Interruptions Max Interruption Length

Egyesült Magyar Csomagolóüveg Kft. KEOROSHA22GN 0 0 0

GE Hungary Zrt. VEFOT00011GN 0 0 0

Submit Cancel

* Denotes a mandatory field

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3.21 VIEW INTERRUPTION MESSAGES

3.21.1 Description

A screen showing details of messages sent informing users of the system about interruptions. This screen will detail both email messages and text messages.

3.21.2 Actors

This screen may be used by all users of the system.

3.21.3 Attributes

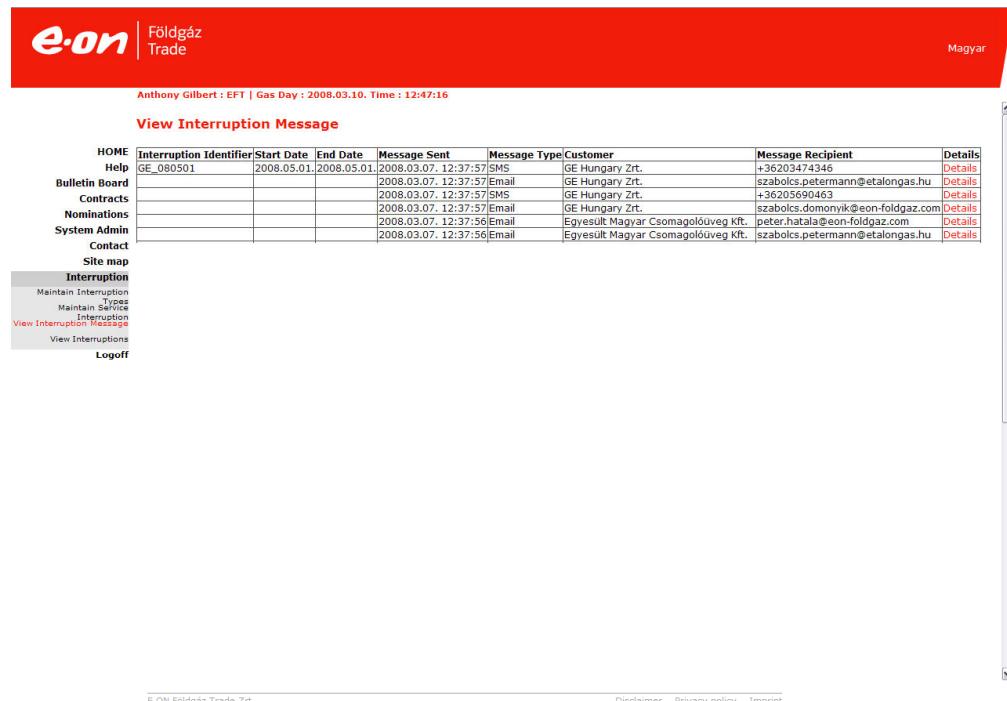
The following table lists the attributes to be displayed on this screen, along with the relevant actions associated with those attributes:

Attribute Name	Description	Allowed Actions
Interruption Identifier	The unique identifier of the interruption.	Display Only
Start Date, End Date	The date span of the interruption.	Display Only
Message Sent	The date and time that the message was sent.	Display Only

Attribute Name	Description	Allowed Actions
Message Type	The type of message that was sent, either email or SMS.	Display Only
Customer Name	The name of the customer that the message was sent to.	Display Only
Recipient	The recipient of the message, either email address or SMS number.	Display Only
Details	Hyperlink to the view message sub-screen detailing messages in more detail. For SMS, the message body is displayed, for email, the email title and body is displayed with a further link allowing download of the interruption spreadsheet.	Selectable

3.21.4 Screen Sample

The following is an example screenshot of the view interruption message screen.



Interruption Identifier	Start Date	End Date	Message Sent	Message Type	Customer	Message Recipient	Details
GE_080501	2008.05.01.	2008.05.01.	2008.03.07. 12:37:57	SMS	GE Hungary Zrt.	+36203474346	Details
			2008.03.07. 12:37:57	Email	GE Hungary zrt.	szabolcs.petermann@etalongas.hu	Details
			2008.03.07. 12:37:57	SMS	GE Hungary zrt.	+36205690463	Details
			2008.03.07. 12:37:57	Email	GE Hungary zrt.	szabolcs.dominik@eon-földgaz.com	Details
			2008.03.07. 12:37:56	Email	Egyesült Magyar Csomagolóüveg Kft.	peter.natala@eon-földgaz.com	Details
			2008.03.07. 12:37:56	Email	Egyesült Magyar Csomagolóüveg Kft.	szabolcs.petermann@etalongas.hu	Details

3.22 OPEN RENOMINATION WINDOW

3.22.1 Description

A screen to allow selection of customers holding active contracts that will subsequently be able to input a within day nomination in the defined time window.

An EFT User sets the renomination window, types in the text of the 'call for renomination message' and submits the request. The users who subscribed to the commercial type of messages and were requested as customers to renominate will receive the request in a message.

Furthermore, those customers that were requested to renominate and their internal KAM users will see the call for renomination message on the bulletin board.

3.22.2 Actors

This screen is to be used by the EFT Administrator.

3.22.3 Attributes

The following lists the attributes to be displayed on this screen, along with the relevant actions associated with those attributes:

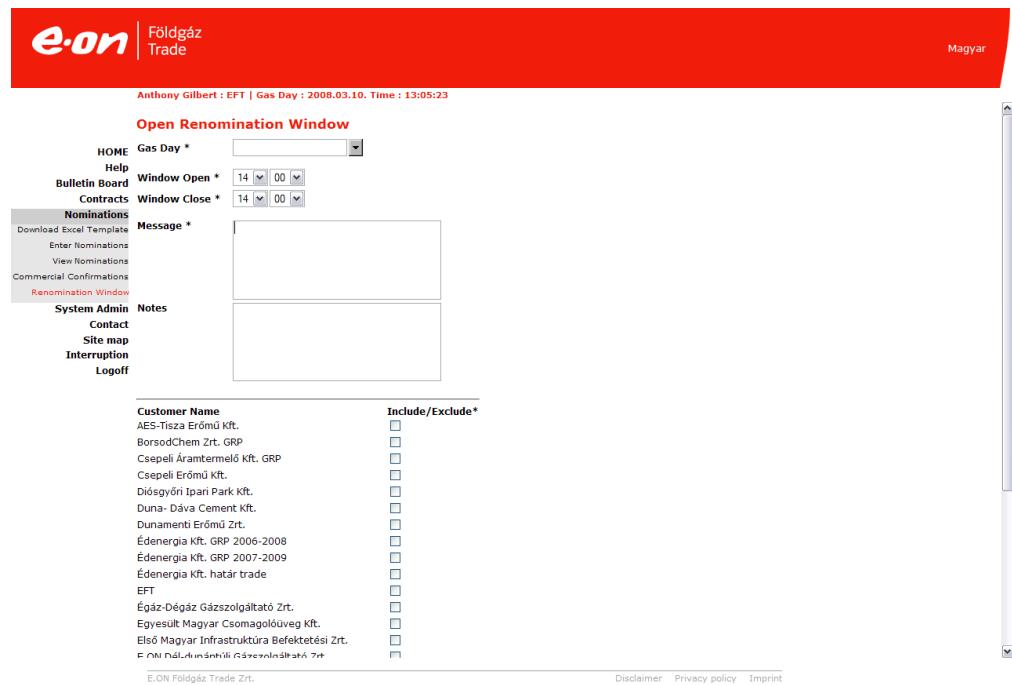
Attribute Name	Description	Allowed Actions
Gas Day, Mandatory	The Gas day to which the renomination window pertains to.	Input, Update
Window Open, Mandatory	The time at which the renomination window should open. (hour:minutes)	Input, Update
Window Close, Mandatory	The time at which the renomination window should close. (hour:minutes)	Input, Update
Content of the Renomination Request Message	The text of the body of the message in Hungarian that will be sent out to those customers' users who subscribed to the commercial messages.	
Notes	A free format notes field.	Input, Update
Customer Name	A list of all customers having active contracts, ordered by customer name.	Display Only
Check boxes	Checkbox indicating, for the list of customers holding valid contracts, who may renominate within day. A checked box indicates a renomination may be entered within the window, and unchecked box indicated that it may not be entered.	Checked/Un-checked

3.22.4 Validation

Only customers with active contracts will be displayed. Entering of mandatory fields will be enforced. Window close dates may not overlap. At least one customer must be selected in order for the renomination window to be saved.

3.22.5 Screen Sample

The following is an example screenshot of the Renomination Window screen.



Anthony Gilbert : EFT | Gas Day : 2008.03.10. Time : 13:05:23

Open Renomination Window

HOME Gas Day *

Help Window Open *

Bulletin Board Contracts Window Close *

Nominations Message *

Download Excel Template

Enter Nominations

View Nominations

Commercial Confirmations

Renomination Window

System Admin Notes

Contact

Site map

Interruption

Logout

Customer Name	Include/Exclude*
AES-Tisza Erőmű Kft.	<input type="checkbox"/>
BorsodChem Zrt. GRP	<input type="checkbox"/>
Csepel Áramtermelő Kft. GRP	<input type="checkbox"/>
Csepel Erőmű Kft.	<input type="checkbox"/>
Diósgyőri Ipari Park Kft.	<input type="checkbox"/>
Duna- Dáva Cement Kft.	<input type="checkbox"/>
Dunamenti Erőmű Zrt.	<input type="checkbox"/>
Édenergia kft. GRP 2006-2008	<input type="checkbox"/>
Édenergia kft. GRP 2007-2009	<input type="checkbox"/>
Édenergia kft. határ trade	<input type="checkbox"/>
EFT	<input type="checkbox"/>
Égáz-Dégáz Gázzszolgáltató Zrt.	<input type="checkbox"/>
Egyesült Magyar Csomagolóüveg Kft.	<input type="checkbox"/>
Első Magyar Infrastruktúra Befektetési Zrt.	<input type="checkbox"/>
E.ON Németország Részvénnyártársi Zrt.	<input type="checkbox"/>

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4 NON-FUNCTIONAL REQUIREMENTS

The following section details the non-functional requirements of the system and how the system will support those requirements.

4.1 DATA SEPARATION

The application will provide separation between data for the Public Utility (PUW) and Open Market (OPM) such that a user for one market may not see data for the other market.

This will be defined at customer level such that a customer may only reside in one market, as agreed in the requirements workshops. Should there be a need for a customer to exist in both markets; these may be set up as two individual customers (equivalent to the two legal entities) with two separate user communities.

Internally for EFT the same results will apply; therefore, individual users will have access to either PUW or OPM but not both.

4.2 DATABASE API

Until later phases of the project are completed, the nomination system will be an input only system for customers to enter nominations. EFT will obviously require a method to get data out of the system; therefore, a database level API will be created affording table-level access to data stored in the system.

This API will be documented and will adhere to the data segregation rules defined above

4.3 AUDIT TRAIL

All significant transactions within the system will be audited and be made available to a super-user for review if required. Screens will be provided to review transactions by user, type and date range.

Transactions can be divided to the following types:

- Logon, created when users log in the application
- Logoff, created when users leave the application with the pressing of the Logoff menu point.
- Update, created when users updated an existing row in the database
- Insert, created when users insert a new row in the database
- Delete, created when users delete a row from the database
- Execute, created when users execute a process or a function over the database.

Details of transaction can be seen after the clicking on the 'Transaction Details' button.

4.3.1.1 Audit Data Summary Details

Journal Data

Session Date/Time	Username	IP Address	Operation Type	Operation Target	Created On	Transaction Details
2008.03.10. 12:12:14	advantica	194.35.186.254	Logon	***UAT*** EFT - Access Manager	2008.03.10. 12:12:14	Transaction Details
2008.03.10. 11:27:39	advantica	194.35.186.254	Logon	***UAT*** EFT - Access Manager	2008.03.10. 11:27:39	Transaction Details
2008.03.10. 10:56:38	advantica	194.35.186.254	Logon	***UAT*** EFT - Access Manager	2008.03.10. 10:56:38	Transaction Details
2008.03.10. 10:18:51	advantica	194.35.186.254	Logon	***UAT*** EFT - Access Manager	2008.03.10. 10:18:51	Transaction Details

System Admin

- Records 1 to 4
- [ReQuery](#)
- [Query](#)

Journal Data

[View Journal Data](#)

System Admin

- Change Password
- [Edit Hotlinks](#)
- [View Error Logs](#)
- [System Event](#)
- [System Event Contacts](#)
- [Message Subscription](#)
- [Change Customer](#)
- System**
- [Profile Elements](#)
- [Role Access](#)
- [Enter License Key](#)
- [Upload Documents](#)
- [Help Text](#)
- [Module Text](#)
- [System Configuration](#)
- [Maintain System Profiles](#)
- [Maintain Exception](#)
- [Messages](#)
- [Maintain System Profiles](#)
- [View Journal Data](#)
- [User](#)
- [Advantics](#)
- [Maintain Contact Information](#)
- [Contact](#)
- [Site map](#)
- [Interruption](#)
- [Logoff](#)

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4.3.1.2 Audit Data Query Screen

Journal Data

Column Name	Old Value	Updated Value
CUSTOMER IDENTIFIER	947	947
CUSTOMER CODE	THE	THE
CUSTOMER NAME	AES-Tisza Erőmű Kft.	AES-Tisza Erőmű Kft.
PERIOD_START	01-MAR-2007	01-MAR-2007
PERIOD_END		
CREATED_BY	szabolcs.domonyik	szabolcs.domonyik
CREATED_ON	13-JUN-2007	13-JUN-2007
CUSTOMER	3	3
DESCRIPTION		
UPDATED_BY	istvan.fazekas@aes.com	istvan.fazekas@aes.com
UPDATED_ON	49/ 547-333	49/ 547-333
EMAIL_ADDRESS	istvan.fazekas@aes.com	istvan.fazekas@aes.com
EMAIL_PHONE	49/ 341-756	49/ 341-756
FAX		
CUSTOMER_TYPE	Public Utility	Public Utility
PRIMARY_CONTACT	Fazekas István	Fazekas István
KAM_MANAGER		
KAM_TELEPHONE		
CUSTOMER_STATUS	A	A
NOMINATION_EMAIL SUBJECT	Nominálás visszaigazolás {GAS_DAY_START} - {GAS_DAY_END} időszakra	Nominálás visszaigazolás {GAS_DAY_START} - {GAS_DAY_END} időszakra
NOMINATION_EMAIL CONTENT	Tisztelt AES Tisza Erőmű Kft.I {GAS_DAY_START} - {GAS_DAY_END} időszakra kuldött gázigenyét {TIMESTAMP}-kor fogadtuk. Üdvözlettel: Eon Földgáz Trade Zrt.	Tisztelt AES Tisza Erőmű Kft.I {GAS_DAY_START} - {GAS_DAY_END} időszakra kuldött gázigenyét {TIMESTAMP}-kor fogadtuk. Üdvözlettel: Eon Földgáz Trade Zrt.
CONFIRMATION_EMAIL SUBJECT	Kereskedelmi visszaigazolás {GAS_DAY} gáznapra	Kereskedelmi visszaigazolás {GAS_DAY} gáznapra
CONFIRMATION_EMAIL CONTENT	Tisztelt AES Tisza Erőmű Kft.I {CONFIRMATION_IDENTIFIER} nominálás azonosítóval beérkezett gázigenyét ezúton igazoljuk vissza. Üdvözlettel: Eon Földgáz Trade Zrt.	Tisztelt AES Tisza Erőmű Kft.I {CONFIRMATION_IDENTIFIER} nominálás azonosítóval beérkezett gázigenyét ezúton igazoljuk vissza. Üdvözlettel: Eon Földgáz Trade Zrt.
AUTO_GENERATE_CONFIRMATION	N	N
CONFIRMATION_TYPE	I	I

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4.4 ERROR LOGGING

Any significant errors that occur during normal day-to-day operations should be logged and made available to the system administrator. These errors may be investigated and marked as cleared once addressed.

4.4.1.1 Error Log Query Screen

Anthony Gilbert : EFT | Gas Day : 2008.03.10. Time : 13:27:30

View error logs

HOME Help Enter query criteria for View error logs

Bulletin Board Contracts Error Type:

Nominations Error Date: to

System Admin Source:

Change Password Error Code:

Edit Hotline Severity:

View Error Logs Error Status:

System Event

System Event Contacts

Message Subscription

Change Customer

System

User

Advantica

Maintain Contact

Interruption

Contact

Site map

Interruption

Logoff

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4.5 MULTI LINGUAL

The system must support dual language, these being English and Hungarian. The default language for a user is defined against the user account, but may be overridden by a link in the title bar, example below.

4.5.1.1 Sample Header Bars

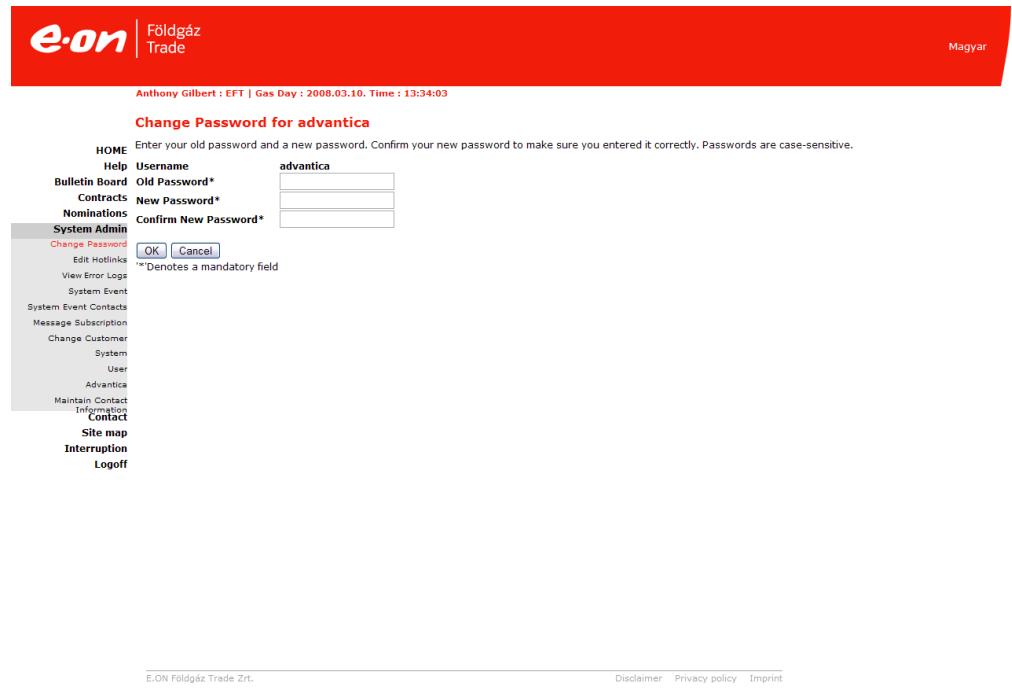


4.6 DATE FORMAT

The system will support a configurable date format inherited from the system configuration screen.

4.7 CHANGE PASSWORD

Each user is able to modify their password by typing their current password in and their new password twice, sample screen below.



The screenshot shows a web-based password change interface for 'advantica'. The top navigation bar includes links for 'e.ON Földgáz Trade', 'Anthony Gilbert : EFT | Gas Day : 2008.03.10. Time : 13:34:03', and 'Magyar'. The main content area is titled 'Change Password for advantica' and contains fields for 'Old Password*' (containing 'advantica'), 'New Password*', and 'Confirm New Password*'. A note states 'Enter your old password and a new password. Confirm your new password to make sure you entered it correctly. Passwords are case-sensitive.' Below the fields are 'OK' and 'Cancel' buttons, with a note that the asterisk denotes a mandatory field. A sidebar on the left lists various system navigation links: HOME, Help, Username, Bulletin Board, Contracts, Nominations, System Admin, Change Password, Edit Hotlinks, View Error Logs, System Event, System Event Contacts, Message Subscription, Change Customer, System, User, Advantica, Maintain Contact, Interruption, Contact, Site map, Interruption, and Logoff. The bottom of the page includes a footer with links to 'E.ON Földgáz Trade Zrt.', 'Disclaimer', 'Privacy policy', and 'Imprint'.

Furthermore, there are a number of password management rules that enforce the user to have a strong password, these being:

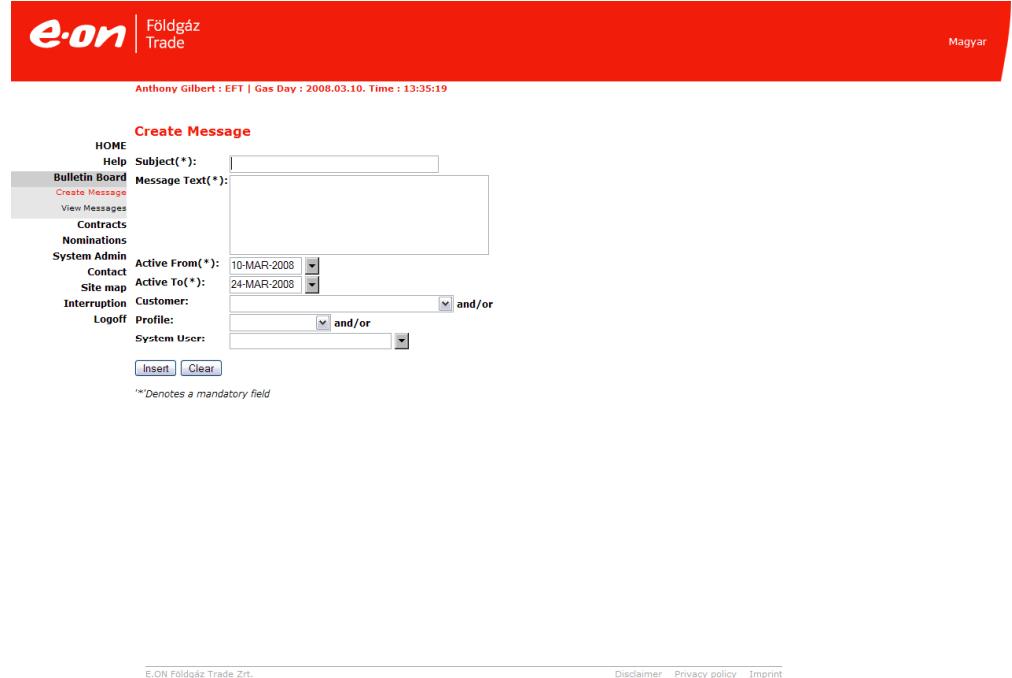
- Minimum password length
- Mixed case password
- Numeric characters
- Password expiration after a number of days.
- A number of unsuccessful login attempts the account is locked.

All of the above are stored as system parameters and are modifiable by the system administrator to make the rules stronger or weaker.

4.8 MESSAGES

Messages may be sent to the user population via the bulletin board functionality. This is made available to the system operator and certain privileged users (internal only). When a message is sent to a certain user population, the message is available within the system for review and is also sent via a digitally signed email.

4.8.1.1 Create Bulletin Screen



The screenshot shows the 'Create Message' screen of the E.ON Földgáz Trade application. The interface is in Hungarian. At the top, there is a red header bar with the E.ON logo and the text 'Földgáz Trade'. Below the header, the URL 'http://www.eon.hu/foldgaz/trade/' is visible. The main content area is titled 'Create Message'. On the left, there is a sidebar with navigation links: HOME, Help, Bulletin Board (which is selected and highlighted in grey), View Messages, Contracts, Nominations, System Admin, Contact, Site map, Interruption, Logoff, Profile, and System User. The main form area contains fields for 'Subject (*)' (a mandatory field), 'Message Text (*)' (a mandatory field), 'Active From (*)' (a dropdown menu showing '10-MAR-2008'), 'Active To (*)' (a dropdown menu showing '24-MAR-2008'), and 'Customer' (a dropdown menu). Below these fields are 'and/or' checkboxes and dropdown menus for 'Profile' and 'System User'. At the bottom of the form are 'Insert' and 'Clear' buttons, and a note stating '(*) Denotes a mandatory field'.

4.9 SYSTEM CONFIGURATION

The following parameters will be made available for modification on a system-wide basis.

Attribute Name	Description	Allowed Actions
Nomination Submission Window	The number of days in the future a nomination may be submitted	Update
Nomination Window	In the absence of a valid nomination, the number of days to look back for a valid nomination.	Update
Password Modification Parameters	Parameters such as: - Minimum password length - Number of upper case characters - Number of lower case characters - Number of numeric	Update

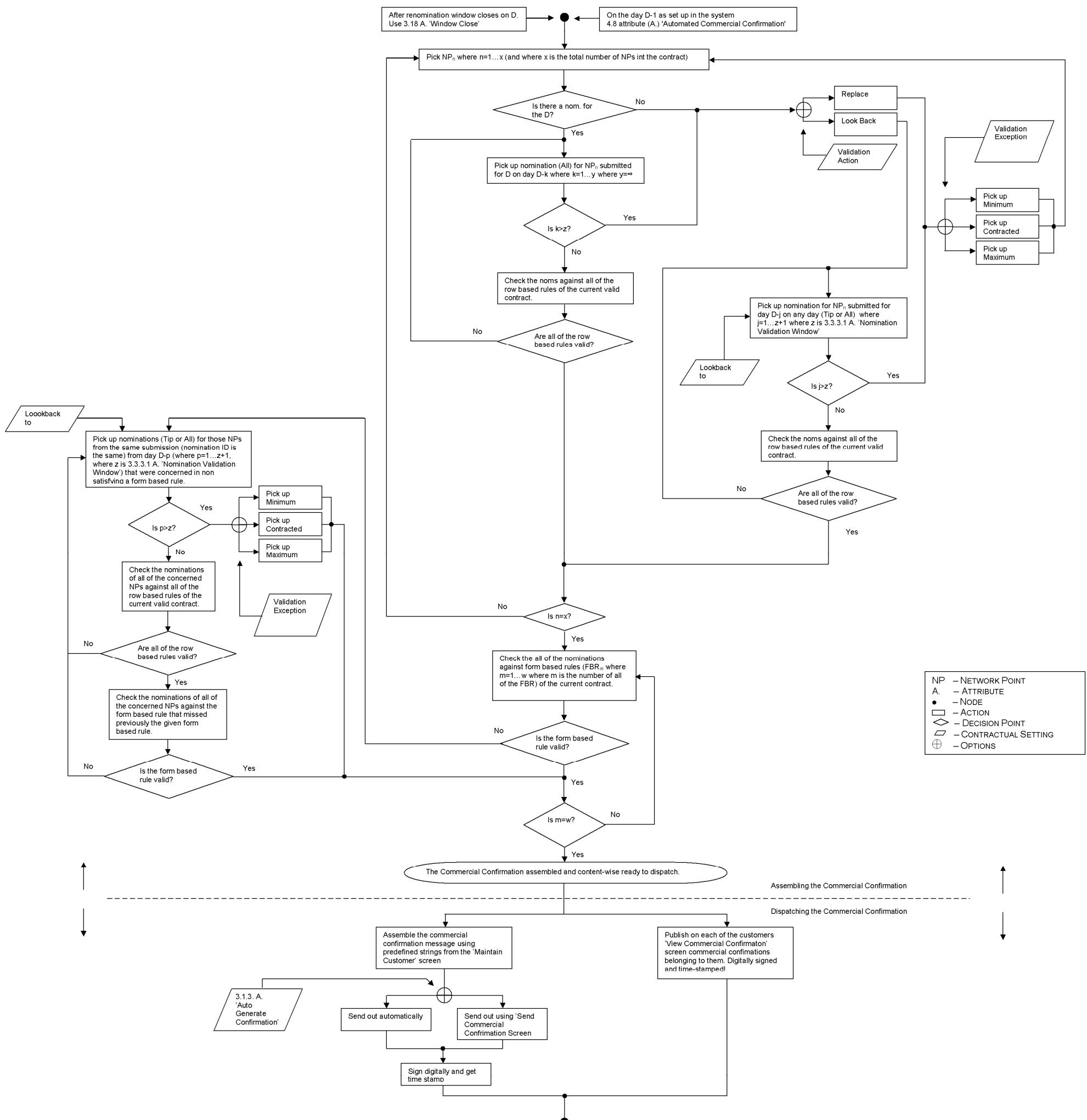
Attribute Name	Description	Allowed Actions
	characters - Number of unsuccessful logins	
Submission Deadline, Mandatory	The submission deadline for nominations, recorded as an adjustment to the start of the gas day given in hours. After this time the nomination for the gas day may not be accepted. (normally -10:00) We have to able to set it up with hour and minutes.	Update
Email Method	Whether emails should be sent as plain SMTP messages or using the secure SMIME format.	Update
Date Format	The date format to be used by the system	Update
SMS Enabled	Whether SMS messaging is enabled in the system.	Update

4.10 SYSTEM RESOLUTION

The application must support different kind of screen resolutions. The followings are expected as a minimum 1024x768, 1280x1024, 1600x1200.

Moreover the system must support the latest stable version of MS Internet Explorer and the Firefox web browser – these being IE6 and Firefox 2 at the time of writing.

APPENDIX A – COMMERCIAL CONFIRMATION PROCESS



NP – NETWORK POINT
 A. – ATTRIBUTE
 ● – NODE
 □ – ACTION
 ◇ – DECISION POINT
 ▷ – CONTRACTUAL SETTING
 ⊕ – OPTIONS

The Commercial Confirmation assembled and content-wise ready to dispatch.

Assembling the Commercial Confirmation

Dispatching the Commercial Confirmation

Assemble the commercial confirmation message using predefined strings from the 'Maintain Customer' screen

Publish on each of the customers 'View Commercial Confirmation' screen commercial confirmations belonging to them. Digitally signed and time-stamped!

3.1.3. A.
'Auto Generate Confirmation'

Send out automatically
Send out using 'Send Commercial Confirmation Screen'

Sign digitally and get time stamp