



APA FTPS Build Pack

For Gas Transmission Customers

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1 Document Control

1.1 Revision History

Version	Review Date	Author	Reviewed by	Summary of change	Status
0.1	1 st May 2011	Michael Ma	Tim McCollum	Initial document	Initial
0.2	18 th May 2011	Steve Nield	Michael Ma	Draft Release to Participants	Draft
0.3	7 th Aug 2011	Michael Ma	Steve Nield	Draft Release with updates	Draft
0.4	8 th Aug 2011	Steve Nield		Updated	Draft
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3.0	29 th Aug 2011	Steve Nield		Review and tidy-up	Published

3.1	29 th Aug 2011	Steve Nield		AcceptRejectDate, ConfirmedQuantityDate, AdjustedQuantityDate. These times relate to the contract. All times on a contract will be at one time zone.	Published
3.2	30 th Aug 2011	Michael Ma	Steve Nield	Updated Nomination Status Request format to include the transaction id as a filter nomination status report. Update nomination status report to include the transaction id.	
3.3	30 th Aug 2011	Emmanuel Bresson	Steve Nield	Updated re Column names on input files being case sensitive	Published
3.4	5 th Sep 2011	Michael Ma		The following field has been added to Nomination Status Report <ul style="list-style-type: none"> VersionNumber The following fields have been changed in nomination status report. <ul style="list-style-type: none"> Old: AcceptedRejectDate New: AcceptedQuantityDate New Section has been updated explain the behaviour of nomination status report Removed NominationDirection from Nomination upload CSV New section has been update explain nomination status Update formatting, removed all the unused styles.	Draft
3.5	29 th Sep 2011	Michael Ma		Added the time to call for APA service desk if MCK and ACK has not been generated in time.	Draft
3.6	13 th Oct 2011	Michael Ma		Changed the Ftp application user Id to the new format	Draft
3.7	25 th Oct 2011	Michael Ma		In NSR changed AcceptDate to AcceptQuantityDate	Draft
3.8	4 th Nov 2011	Michael Ma		Updated the ACK and MCK ReceiptDateTime to follow ISO 8601	Draft
3.9	30 th Mar 2012	Steve Nield		Updated Timestamp definition to be AEST no daylight saving ie Market Time	

1.2 Review & Distribution List

Version	Review Date	Reviewed by	Title	Action

1.3 Related Documents



Document	Source Organisation



2 Definitions

Term	Definition
Agent	An entity nominating on behalf of a Shipper
APA	Meaning APA and its relevant legal entities.
Company	A legal entity consisting of one or more Customers
Customer	A legal entity within a Company with whom APA have contracts for haulage and also in some cases for storage of gas within APA owned or operated facilities.
EC	Energy Components. A hydrocarbon accounting (HCA) software suite for production management in oil and gas.
Participant	A Company consisting of one or more Customers, or an Agent
Shipper	Please see Company.
Market Time	The time used by Australian FRC Markets i.e. UTC +10.

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3 Introduction

3.1 Background

The APA Group is transforming its business operations by implementing a Customer focused APA Grid system. This includes a Customer portal, with access to the Energy Components (EC) software suite

The standard process of submitting a nomination involves a person entering nominations directly or uploading a nomination CSV file via a web interface. This is ideal for participants with a small number of nomination points; however participants with a large number of nominations may prefer to use an automated system.

The new APA Automated Nomination System will provide a number of benefits including:

- Flexibility on how many nominations to make
- Fully automated interface with no human interaction required
- Robust error handling processes.

Two forms of automated nomination interface have been provided by APA.

- FTPS – File transfer protocol over SSL, this allows the participant to upload and download files in CSV formats
- Web Service –application based automation.

This document deals with the FTPS process.

3.2 Purpose

After reading this build pack, participants should have a good understanding of the processes involved in the FTPS facility as well as the files and formats expected.

This document serves as a guideline for participant technical teams to develop their own systems to communicate to the APA FTPS Automated Nomination System.

3.3 Target Audience

- Participant Commercial staff
- Participant Technical staff

4 Transportation of Files

4.1 Overview

This section describes in detail the methods of transporting files to and from the APA systems. The transport section outlines the folder structure and its security permissions in the APA FTPS server. The file section gives a complete overview on how to upload the files as well as the CSV file specification.

4.2 Transport

The transport method for files in all cases will be FTPS.

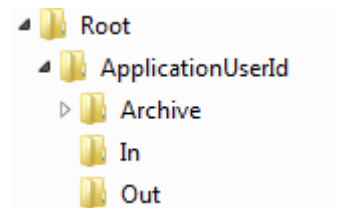
IP addresses and the specific folders for each participant will be notified to market participants prior to Communications Infrastructure Testing.

4.3 Folders

Participants will have a set of folders specific to each Application User-Id provided.

The root of the folder structure will be named with the participant's FTPS Application User-Id (specified by APA). A participant may request more than one FTPS Application User-Id if they wish to ring-fence nomination responsibility within their company. The details will be determined by discussion with the APA EC administrators.

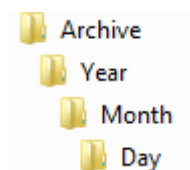
The folder structure for the FTPS site is shown below:



The folder access restrictions are as follows:

Folder	Access Rights	Comments
\In	Write, Read	Folder containing incoming files from an FTPS Application User. Files deposited in this folder will be picked up, processed and removed by APA Middleware.
\Out	Read, Delete	Folder containing files output by APA for an FTPS Application User. It is responsibility of the participant to remove files that have been deposited in this folder.
\Archive\	Read	Folder containing all the archived files that have been processed. This folder will contain all files submitted to the \In folder or deposited in the \Out folder.

The archiving structure for the folder will follow a \Year\Month\Day structure





4.4 FTPS Upload Process Requirements

To avoid an APA FTPS process picking up a partial file while the file is still in-transit the following upload protocol must be used.

1. Generate the CSV file with .tmp file extension
2. Upload the .tmp file to the *in* folder on the APA FTPS Server.
3. Upon completion of the file transfer change the file extension from .tmp to .csv

A file is deemed to have been received by APA at the moment when it has been renamed from .tmp to .csv in the participant's FTPS Application User-Id *In* folder.

A file is deemed to have been sent by APA at the moment its extension has been changed to .csv in the participant's FTPS Application User-Id *Out* folder.

4.5 Re-sending Files

In the event of a system failure or data transfer failure it may be necessary to re-send files to APA. Files that have not been processed by APA can be resend in their original format after the system has been restored.

4.6 Stop Message

During a planned APA system outage such as Scheduled system maintenance, an empty file with file name: STOP.CSV will be placed in the *In* and *Out* FTPS folder by APA. Once this file has been detected, participants must not upload or download any files in the *In* and *Out* folder until the STOP.CSV file has been removed by APA.

4.7 CSV File Requirements

4.7.1 File header

Every uploaded file must consist of a header and a body. The header must be separated from the body by a carriage return and linefeed, i.e. CR + LF. Column titles in the header are case sensitive.

The body contains one or more rows of data to be uploaded into the *in* folder for a transactional exchange of data.

4.7.2 File format

Any uploaded file must be in 7-bit ASCII format. Non-printable characters must not be used. Unicode formats should not be used.

4.7.3 Line delimiters

Lines in the uploaded file should be delimited by a combination of Carriage Return (CR, ASCII code decimal 13) and Line Feed characters (LF, ASCII code decimal 10). This combination is chosen to cater for the "lowest common denominator" in producing CSV files, the Microsoft® Excel™ application that uses this behaviour as default.

4.7.4 Field delimiters

Fields in a row must be delimited by commas (ASCII code decimal 44).

The last field in the row must be followed by a line delimiter (CR+LF) except for the last line in a file.

4.7.5 Optional fields

If a field is declared as optional its value needs not to be included, however the field delimiter must be present.



4.7.6 Treatment of literals

The CSV import application will be able to parse literals irrespective of whether they are surrounded by double-quotes or not.

Single quotes will be interpreted as being part of the field data, not a delimiter.

A CSV parser will be able to parse and interpret the following CSV file rows:

```
123,"This is a sample field which includes a comma, and this is part of the same field",456
123,This is a sample field,456
123,'This is a sample field which includes a single quote at the beginning,456
123,'This is a sample field which includes a single quote at the beginning, and this is a different field with a single quote at the end',456
```

4.7.7 Leading and trailing spaces

In the case of numeric values the use of a leading, embedded or trailing space is inappropriate. Spaces should not be used where a value has a Numeric characteristic.

Where the value has a “text” characteristic that by its nature can have a space or spaces as part of the structure, only embedded spaces are permitted. Leading and trailing space-characters immediately adjacent to the comma field separators should not be included in the CSV file. Therefore “John Citizen”... resolves to ---,John Citizen,--- or ---,"John Citizen",---

Where values must have a leading or trailing spaces as a valid part of the data it must be delimited with double-quote characters. In this way it indicates that the leading and trailing spaces are a component part of the data for example:

```
---," John Citizen ",---
```

4.7.8 Tab characters

Tab characters shall not be used in CSV files.

4.7.9 Special characters

The use of CDATA (non-parsed character data), characters “<”, “>”, “&” and hexadecimal characters is prohibited.

4.7.10 Positive and negative numeric values

Positive numbers in a CSV file shall be unsigned. Negative numbers shall be prefixed with a negative sign.

4.7.11 Leading and trailing zeroes

There shall be no leading zeroes in numeric values unless a specific data format requires this. Trailing zeroes are allowed and will be ignored, if provided.

4.7.12 Units

All measurements of gas quantity will be in Gigajoules, unless specifically noted otherwise.

4.7.13 Connection Frequency

Participants should provide a mechanism in their solution such that the time between connections to the FTPS server is controllable, in order to prevent flooding the APA FTPS server with polling requests.

4.8 Data Dictionary

Field Name	Data Type	Description	
APASystemCode	String	"AANS"	
AcceptedQuantity	Numeric	Accepted Quantity	
AcceptQuantityDate	Date	Value	Description
		YYYY-MM-DDThh:mm:ss	Date the Nomination is accepted. Reported in the local time relating to the contract.
AdjustedQuantity	Numeric	Nomination adjusted by APA	
AdjustedQuantityDate	Date	Value	Description
		YYYY-MM-DDThh:mm:ss	Date the nomination was adjusted. Reported in the local time relating to the contract.
ApplicationUserId	String	A unique APA supplied user Id to be used by the participant when using the APA Automated Nominations System via FTPS. Eg. AANSFTEST	
CompanyCode	String	Unique code used to identify company	
CompanyName	String	Company Name	
ConfirmedQuantity	Numeric	Confired Quantity, this is the preliminary scheduled quantity. Once this number has been confirmed by APA, this will become the scheduled quantity.	
ConfirmedQuantityDate	Date	Value	Description
		YYYY-MM-DD	Date nomination was confirmed. Reported in the local time relating to the contract.
CustomerCode	String	Unique Code for a Customer	
CustomerName	String	Customer Name	
DuplicateStatus	String	Value	Description
		Yes	If the transaction id is duplicated
		No	If the transaction id is not duplicated
EndGasDate	Date	Value	Description
		YYYY-MM-DD	End query Date
EventCode	String	Unique value representing the error.	
EventCodeDescription	String	Describes the event code in question.	
EventContext	String	Optional value giving more information about the Event.	
EventSeverity	String	Value	Description
		Error	The transaction is in Error and hence cannot be processed
ExpiryDate	Date	Value	Description

Field Name	Data Type	Description	
		YYYY-MM-DD	Last date where the nomination point is active
ExternalConfirmedQuantity	Numeric	Interconnect party confirmed quantity	
ExternalConfirmedQuantity Date	Date	Value	Description
		YYYY-MM-DDThh:mm:ss	Reported in the local time relating to the contract.
InitiatingTransactionId	String	The TransactionId of the message this message is validating. Used by output files	
FileLineCount	String	The number of lines in the CSV file excluding the header line	
MessageId	String	Value	Description
		{[A-Z0-9]{10,36}} Not containing [_] (underscore)	Uniquely identifies the initial message. Can be used in APA and participant systems as a tracing mechanism. Greater than or equal to 10 characters and less than or equal to 36 characters long) This will generally be a system generated GUID in string format E.g. 21EC2020-3AEA-1069-A2DD-08002B30309D
NominationPointCode	String	A single valid nomination point code	
NominationDirection	String	Value	Description
		Entry	Nomination at a Receipt or Entry point
		Exit	Nomination at a Delivery or Exit point.
NominationGasDate	Date	Value	Description
		YYYY-MM-DD	The nomination gas date.
NominationPointCode	String	The unique system code for the nomination point	
NominationPointName	String	The display name of the nomination point	
NominationStatus	String	Value	Description
		ACC	Accepted: Contractually approved, pending confirmation Nomination is accepted internally. Nominations are contractually in balance or the current imbalance is granted
		ADJ	Adjusted: Nomination adjustment for handling imbalances caused by internal operational considerations or events This figure will overwrite all nomination
		CON	Confirmed: pending final schedule Nomination is confirmed both internally and

Field Name	Data Type	Description	
			externally (externally: where applicable)
		INIT	Initiated: System initiated record
		PEN	Pending: Requested Nomination Received, pending APA approval
		REJ	Rejected: Requested Nomination Rejected, Nomination resubmission is required.
		REQ	Requested: The first step in the nomination process received externally (MHM or entered) from shippers on pipeline
		SCH	Scheduled: Nomination is scheduled.
NominationType	String	Value	Description
		Normal	The nomination has been received prior to intra-day dead line
		IntraDay	The nomination has been received after the intraday dead line
Quantity	Numeric	Value	Description
		[0-9]{8}	The nomination quantity
ReceiptDatetime	DateTime	Value	Description
		YYYY-MM-DDThh:mm:ssZ	Time this MCK or ACK file was produced. This time will be in UTC format. The time format is based on ISO 8601.
ReplyStatus	String	Value	Description
		E	Error
		S	Successful
RequestedQuantity	Numeric	Shipper Requested Quantity	
RequestedQuantityDate	Date	Value	Description
		YYYY-MM-DDThh:mm:ss	Shipper Requested Quantity Date. Reported in pipeline local time
ScheduledQuantity	String	This field will always show the scheduled quantity. This is the quantity that will be used for operation and allocation.	
ScheduledQuantityDate	Date	Value	Description
		YYYY-MM-DDThh:mm:ss	Scheduled Quantity Date. Reported in pipeline local time
ServiceContractCode	String	The unique system code for the service contract	

Field Name	Data Type	Description	
ServiceContractName	String	Service contract name	
ShipperContractCode	String	Unique Code for the Shipper Contract	
ShipperContractName	String	Shipper Contract Name	
StartDate	Date	Value	Description
		YYYY-MM-DD	First date where the nomination point is active
StartGasDate	Date	Value	Description
		YYYY-MM-DD	Start Query Date
Status	String	Value	Description
		Accept	Success
		Reject	Failure
Timestamp	DateTime	YYYYMMDDhhmmss in AEST – no daylight saving (ie Market time)	
Transaction	String	Value	Description
		ACK	Nomination Acceptance
		MCK	Message Acknowledgment
		NOM	Nomination
		NPQ	NominationPointRequest
		NPR	NominationPointReport
		NSQ	NominationStatusRequest
		NSR	NominationStatusReport
TransactionId	String	AANS_<MessageId>_<Timestamp>_<Transaction>_< ApplicationUserId >	
InitiatingTransactionId	String	The TransactionId of the incoming file which generated the MCK/ACK file	
UOM	String	Value	Description
		GJ	Constant
VersionNumber	Numeric	Version number of the nomination. This number will be incremented every time the nomination is updated.	

4.9 Input File Naming convention

General format of an APA Automated Nomination System (AANS) input filename is detailed below:

Field	Description
APASystemCode	"AANS"
Fixed Character	[_] (underscore)
MessageId	e.g. 21EC2020-3AEA-1069-A2DD-08002B30309D
Fixed Character	[_] (underscore)
Timestamp	e.g. 20090313122457
Fixed Character	[_] (underscore)
Transaction	e.g. NOM
Fixed Character	[_] (underscore)
ApplicationUserId	e.g. AANSFTEST
Fixed Character	[_] (underscore)
FileLineCount	Number of lines in the file excluding header
The file extension of "csv" or "tmp" separated from the file name with a period "."	[.](CSV TMP)

Here is an example of a file name:

AANS_21EC2020-3AEA-1069-A2DD-08002B30309D_20090313122457_NOM_AANSFTEST_10.CSV

4.10 Output File Naming convention

The format of an APA Automated Nomination System (AANS) output filename is detailed below:

Field	Description
APASystemCode	"AANS"
Fixed Character	[_] (underscore)
InitiatingMessageId	e.g. 21EC2020-3AEA-1069-A2DD-08002B30309D In the unlikely event of a file being submitted with an invalid MessageId component or with a file name that cannot be parsed, a new unique ID will be generated and used instead.
Fixed Character	[_] (underscore)
Timestamp	e.g. 20090313122457
Fixed Character	[_] (underscore)
Transaction	e.g. ACK
Fixed Character	[_] (underscore)
ApplicationUserId	e.g. AANSFTEST
Fixed Character	[_] (underscore)

FileLineCount	Number of lines in the file excluding header
Fixed Character	[_] (underscore)
ReplyStatus	e.g. Success
The file extension of "csv" or "tmp" separated from the file name with a period "."	[.](CSV TMP)

Here is an example of a file name:

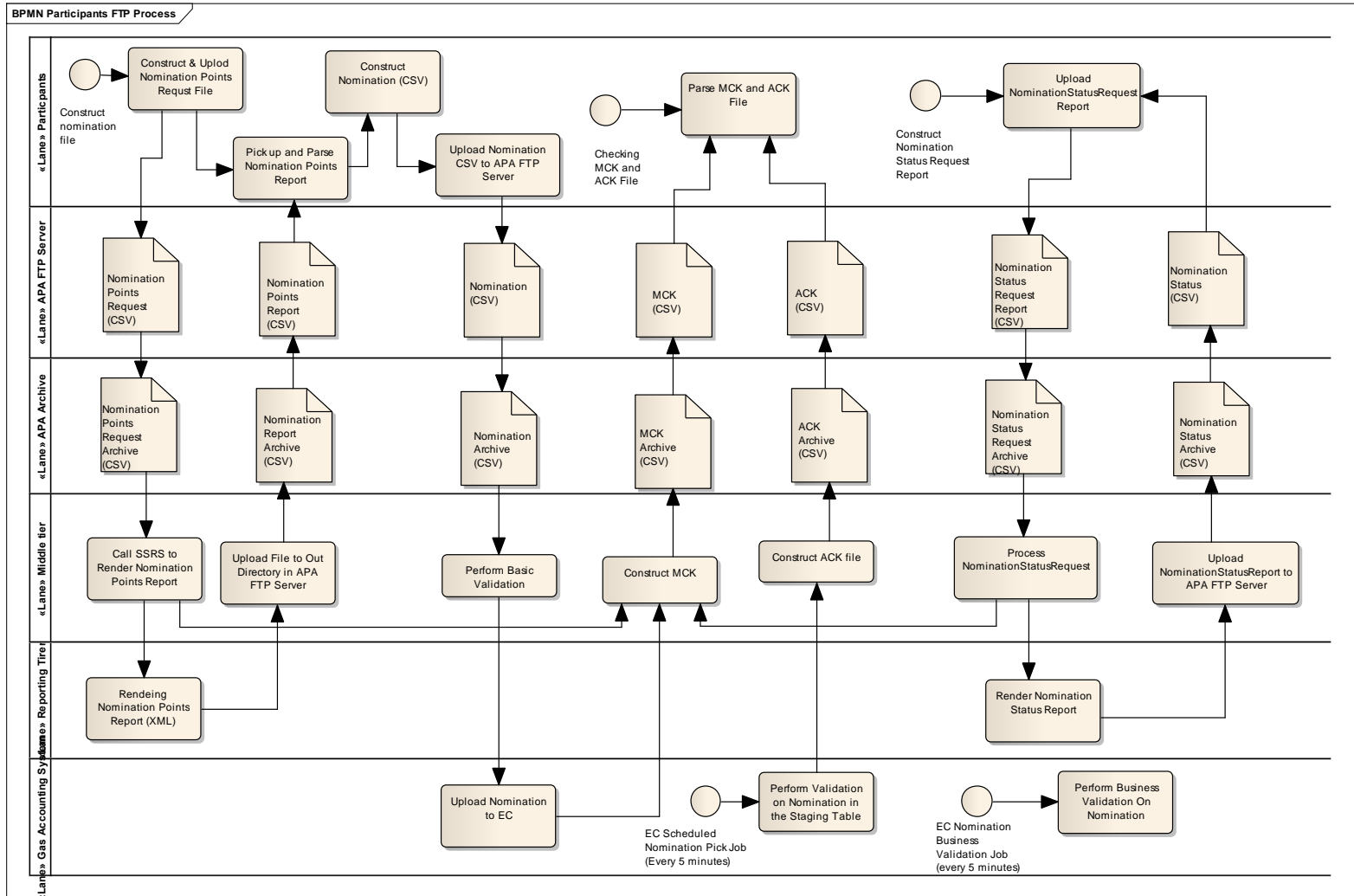
AANS_21EC2020-3AEA-1069-A2DD-08002B30309D_20090313122457_MCK_ AANSFTEST _1_S.CSV

4.11 TransactionId

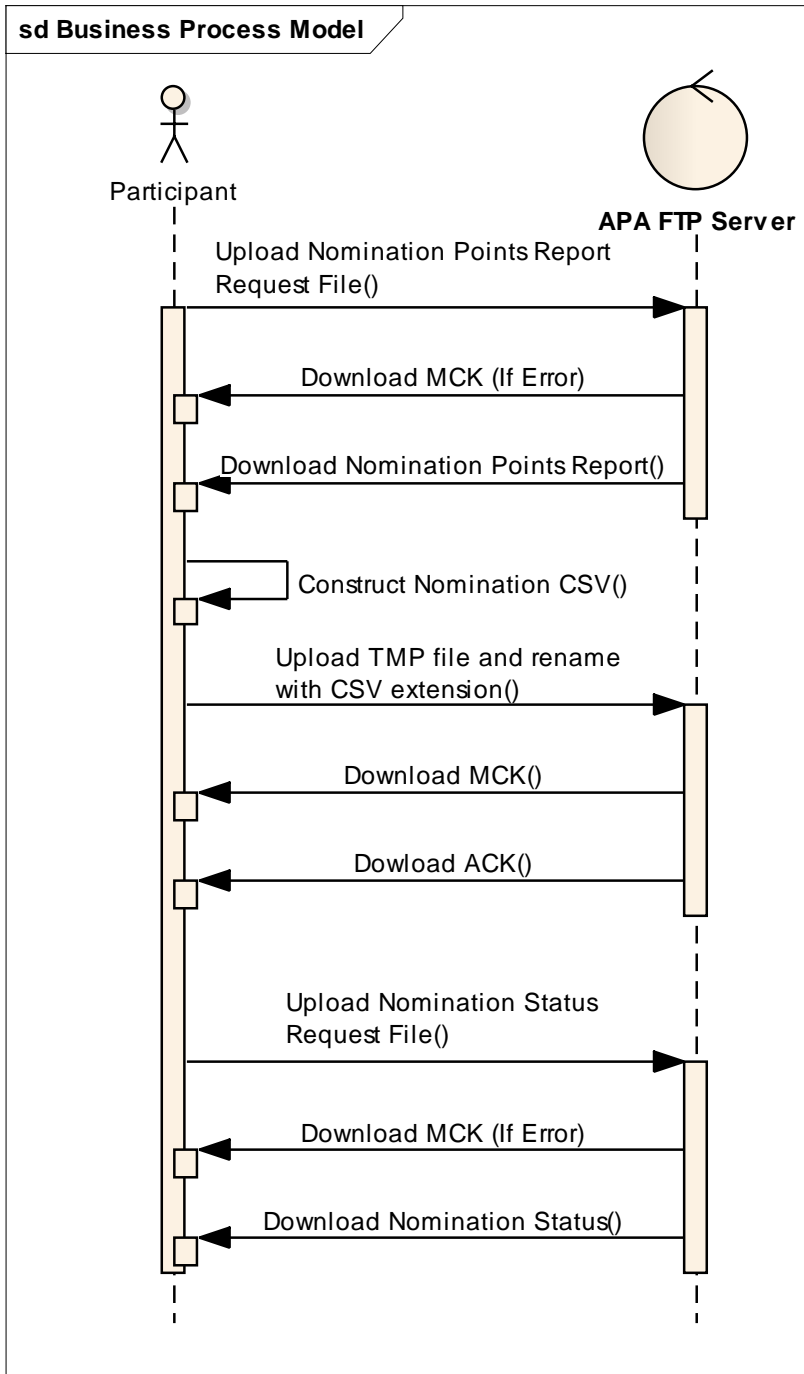
TransactionId is a combination of letters that uniquely identify a transaction. In the APA FTPS Automated Nomination System, the TransactionId is defined by the section of the file name encased in the square bracket (below). This TransactionId is also used in APA web service automated nomination interface and any duplication of the TransactionId will result in the submitted file being rejected.

[<APA System Code>_<MessageId>_<Timestamp>_<Transaction>_<ApplicationUserId>]_<Line Count>.<Extension>

5 FTPS Process Overview



5.1 Participant Nomination via FTPS – Overview





5.2 Participant Nomination via FTPS - Process

5.2.1 Nomination Points Report

Prior to the construction of the nomination CSV file, participants should download the latest Nomination Points Report. Please note, this step is optional.

This report contains all of the available nomination points the participant can nominate from the current gas date onward.

Failure to do so can possibly cause the construction of an invalid nomination CSV file, with the consequence of it being rejected by the APA system.

To request the Nomination Points report, participants must perform the following:

1. Construct a Nomination Points Request File
 - Please refer to section 7.1 [Nomination Points Request](#)
2. Upload the file to the *in* folder on the APA FTPS Server
3. Wait for approximately 1 – 3 Minutes
4. Download the Nomination Points Report (or MCK file if there has been an error) from the *out* folder on the APA FTPS Server
 - Please refer to section 7.2 [Nomination Points Report](#)

5.2.2 Nomination Submission

Participants should use the Nomination Points Report as a reference in the construction of the Nomination CSV.

To submit nominations participants must perform the following:

1. Construct the nomination CSV according to APA specification
 - Please refer to section 7.3 [Nomination Upload CSV](#)
2. Upload the file to the *in* folder on the APA FTPS Server
3. Wait for approximately 1-2 minutes
4. Download the nomination MCK from the *out* folder on the APA FTPS Server
5. Wait for approximately 5-10 minutes
6. Download the nomination ACK from the *out* folder on the APA FTPS Server

Please note, this file only signals that APA has successfully received the Nomination file. It does not mean the nomination file has been processed.

- Please refer to section 7.4 [MCK File](#)

This file indicates that APA has successfully parsed and loaded all of the nomination records from the CSV file into its system.

- Please refer to section 7.5 [ACK File](#)

5.2.3 Nomination Status Report

Once APA has successfully loaded all the nomination records, the nomination scheduled business process will be started.

This assigns a status to each nomination based on a set of business rules. Participants should construct a nomination status request file approximately 5 minutes after receiving a successful ACK file.

Please note, a nomination status request file allows the participant to query any combination of nomination status.

1. Construct a Nomination Status Request File
 - Please refer to section 7.6 [Nomination Status Request File](#)
2. Wait for approximately 1-2 minutes
3. Download the Nomination Status Report (or MCK file if there has been an error) from the *out* folder on the APA FTPS Server
 - Please refer to section 7.6 Nomination Status Report File

5.3 MCK vs. ACK

A message acknowledgement file (MCK) will be generated within approximately 2 minutes of the receipt of the nomination CSV. A successful MCK only means that the nomination file was received by APA and passed basic validations. This does not mean the nominations have been successfully accepted by APA.

A transaction acknowledgement file (ACK) will be generated within approximately 5 minutes of a successful MCK file having been issued.

A success status in an ACK file means that the nomination has been successfully accepted by APA.

Please note, if an uploaded nomination has returned an error MCK file, no ACK file will be produced.

The successful return of an ACK file does not mean that the nomination has been successfully scheduled by APA.

Submitted nominations can be rejected or require additional approval in subsequent APA business processing.

If the MCK has not been generated within 5 minutes after submission of the nomination and ACK has not been generated within 10 minutes after receiving a successful MCK, please contact APA service desk for further assistance.

6 FTPS File Specification

6.1 Nomination Points Request

6.1.1 Description:

The Nomination Points Request is a file designed to initiate the generation of a Nomination Points Report. Once a participant uploads this file, the APA system will generate the latest Nomination Points Report into the participant's out folder.

6.1.2 Frequency:

It is expected that participants will send a Nomination Points Request file every time a nomination CSV file is being built. Please note this step is optional and only required if there are upcoming changes to the nomination points the participant is nominating against. Typically this will be about 1-3 times per day.

6.1.3 File Transfer Direction:

Participant to upload the file into the APA FTPS server participant's in folder.

6.1.4 File Name:

See section 0

6.1.5 File Content:

The following table provides the mapping for the nomination upload csv.

Column Title (case sensitive)	Required	Example Values
ApplicationUserId	Yes	AANSFTEST

6.2 Nomination Points Report

6.2.1 Description:

The Nomination Points Report is designed to show all the relevant nomination points from current date forward and that are applicable to the querying participant. Participants should use this report to validate nominations and monitor for any nomination point changes in the upcoming days.

6.2.2 Frequency:

A Nomination Points Report file will be generated approximately 1- 2 minutes after the participant has uploaded the Nomination Points Request file.

6.2.3 File Transfer Direction:

The participant is to pick up and delete the file from APA FTPS server participant's out folder.

6.2.4 File Name:

See section 4.10

6.2.5 File Content:

The following table provides the mapping for the Nomination upload csv.

Column Title	Example Values
CompanyCode	CORP_BHP
CompanyName	BHP
CustomerCode	BHPM
CustomerName	BHP Pty Ltd
ShipperContractCode	SH_VRVN_GTA
ShipperContractName	Verve PP GTA
ServiceContractCode	SC_VRVN_PP_FIRM2
ServiceContractName	Verve PP Firm Services
NominationPointCode	BPRF_BPO_NP
NominationPointName	BP Refinery deliveries at BP Oil (BPO)
StartDate	2009-04-01
ExpiryDate	2012-02-01
NominationDirection	Exit

6.3 Nomination Upload CSV

6.3.1 Description:

This is the CSV nomination file that participants upload to the APA FTPS server. Participants must make sure this file is validated against the most recent Nomination Points Report to ensure it will not be rejected.

6.3.2 Frequency:

Typically participants will upload this report 1-3 times a day.

6.3.3 File Transfer Direction:

Participant to upload file into APA FTPS server participant's in folder.

6.3.4 File Name:

See section 0

6.3.5 File Content:

The following table provides the mapping for the nomination upload csv.

Column Title (case sensitive)	Required	Example Values
NominationPointCode	Yes	BPRF_BPO_NP
NominationGasDate	Yes	2011-07-01
Quantity	Yes	10000
UOM	Yes	GJ

6.4 MCK File

6.4.1 Description

APA shall send a message acknowledgement for every Nomination message it receives and for every unsuccessful report request.

The information in the file describes whether or not the file submitted conforms to specifications.

A successful MCK means that the nomination file has passed some basic validation and has been passed to the subsequent APA system for processing.

An error MCK means that the request (report or nomination) has been unsuccessful.

Participants can use the InitiatingTransactionId to correlate the MCK to the uploaded file.

6.4.2 Frequency:

This file will be generated every time a participant uploads a nomination file onto the APA FTPS server or when a report request is not successful.

6.4.3 File Transfer Direction:

Participant to pick up and delete this file from APA FTPS server participant's out folder.

6.4.4 File Name:

See section 4.10

6.4.5 File Content:

The following table provides the mapping for the MCK file.

Column Title	Mandatory / Optional	Example Values
InitiatingTransactionId	M	AANS_21EC2020-3AEA-1069-A2DD-08002B30309D_20090313122457_NOM_AANSFTEST
ReceiptDatetime	M	2011-04-11T10:22:46Z
Status	M	Reject
DuplicateStatus	M	No
EventSeverity	O	Error
EventCode	O	FILE_NAME_INVALID
EventCodeDescription	O	Invalid filename – File name provided does not comply with the naming convention
EventContext	O	FILE_NAME_VALIDATION

6.5 ACK File

6.5.1 Description:

This is the transaction acknowledgement file sent to the Participant by APA. This file signals the success or failure of the business validation by APA. If the file has a Status of "Accept" it has successfully passed the business validation and nominations have been successfully accepted by the end system. The InitiatingTransactionId can be used to correlate the ACK file to the nomination file initially uploaded.

6.5.2 Frequency:

This file will be generated every time a participant uploads a nomination file and receives a successful MCK. If the participant received an error MCK the ACK will not be generated.

6.5.3 File Transfer Direction:

Participant is to pick up and delete the file from APA FTPS server participant's out folder.

6.5.4 File Name:

See section 4.10

6.5.5 File Content:

The following table provides the mapping for the ACK file.

Column Title	Mandatory / Optional	Example Values
InitiatingTransactionId	M	AANS_21EC2020-3AEA-1069-A2DD-08002B30309D_20090313122457_NOM_AANSFTEST
ReceiptDatetime	M	2011-04-11T10:22:46Z
Status	M	Accept
DuplicateStatus	M	No
EventSeverity	O	Error
EventCode	O	INVALID_NOMINATION
EventCodeDescription	O	Invalid nomination
EventContext	O	NOMINATION_VALIDATION

6.6 Nomination Status Request File

6.6.1 Description:

The nomination status request file is a file generated by participants and uploaded to APA. Participants can use it to query the nomination status of any nomination records.

6.6.2 Frequency:

This file is produced by the shipper on request.

6.6.3 File Transfer Direction:

Participant to upload file into APA FTPS server in folder.

6.6.4 File Name:

See section 0

6.6.5 File Content:

The following table provides the mapping for the nomination status request csv.

Column Title (case sensitive)	Required	Example Values	Value / Notes
CustomerCode	No	BPRF	A single system code for the customer or left empty to retrieve data for all customers the user is allowed to access
ShipperContract Code	No	SH_BPRF	A single valid contract code or leave it empty to retrieve data for all shipper contracts
ServiceContract Code	No	SC_BPRF	A single valid contract code or leave it empty to retrieve data for all service contracts
NominationPoint Code	No		A single valid nomination point code or leave it empty to retrieve data for all nomination points
StartGasDate	Yes	2011-04-26	
EndGasDate	Yes	2011-05-30	Must be greater or equal to StartGasDate
NominationStatus	No		A single valid status code or leave it empty to retrieve data for any status.
TransactionId	No	AANS_21EC2020-3AEA-1069-A2DD-08002B30309D_20090313122457_NOM_AANSFTEST	The transaction id of a previously submitted nomination.

6.7 Nomination Status Report File

6.7.1 Description:

The nomination status file shows a participant the nomination status for all nominations in the APA system as specified by the participants uploaded Nomination Status Request

6.7.2 Frequency:

This file is to be generated approximately 1-2 minutes after receiving participant's nomination status requests.

6.7.3 File Transfer Direction:

Participant to pick up file from APA FTPS server out folder.

6.7.4 File Name:

See section 4.10

6.7.5 File Content:

The following table provides the mapping for the nomination upload csv.

Column Title	Example Values
TransactionId	AANS_21EC2020-3AEA-1069-A2DD-08002B30309D_20090313122457_NOM_AANSFTEST
VersionNumber	1
CompanyCode	CORP_BHP
CompanyName	BHP
CustomerCode	BHPM
CustomerName	BHP Pty Ltd
ShipperContractCode	SH_VRVN_GTA
ShipperContractName	Verve PP GTA
ServiceContractCode	SC_VRVN_PP_FIRM2
ServiceContractName	Verve PP Firm Services
NominationPointCode	BPRF_BPO_NP
NominationPointName	BP Refinery deliveries at BP Oil (BPO)
NominationDirection	Exit
NominationGasDate	2011-05-01
UOM	GJ
RequestedQuantity	123



RequestedQuantityDate	2011-05-01T08:30:15
AcceptedQuantity	123
AcceptedQuantityDate	2011-05-01T08:30:15
ExternalConfirmedQuantity	123
ExternalConfirmedQuantityDate	2011-05-01T08:30:15
ConfirmedQuantity	123
ConfirmedQuantityDate	2011-05-01T08:30:15
AdjustedQuantity	123
AdjustedQuantityDate	2011-05-01T08:30:15
ScheduledQuantity	123
ScheduledQuantityDate	2011-05-01T08:30:15
NominationStatus	ACC
NominationType	Normal

7 Appendix

7.1 Nomination Status Request Examples

The following example has been simplified to illustrate the processes

7.1.1 Querying with a TransactionId:

7.1.1.1 Description

When a nomination status request contains a valid TransactionId, the returned nomination status report will return a complete historian for the submitted nomination TransactionId.

7.1.1.2 Example 1:

1. Previous confirmed nomination already in system:

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
1	0	NP1	2011-09-01	200	2011-08-20 13:59:45	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	CON	Normal

2. Participant to upload the following nomination on 2011-08-21 15:01:02

TransactionId	NominationPointCode	NominationGasDate	Quantity	UOM
2	NP1	2011-09-01	200000	GJ

3. Nomination was rejected by APA.

4. Participant to query nomination status using nomination status request

CustomerCode	ShipperContractCode	ServiceContractCode	NominationPointCode	StartGasDate	EndGasDate	NominationStatus	TransactionId
			NP1	2011-09-01	2011-09-01		2

5. The following record will be returned. The submitted record was rejected and replaced by the last confirmed nomination.

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
2	1	NP1	2011-09-01	200000	2011-08-21 15:01:02	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	REQ	Normal
2	2	NP1	2011-09-01	200000	2011-08-21 15:01:02	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	REJ	Normal
2	3	NP1	2011-09-01	200	2011-08-20 13:59:45	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	CON	Normal

7.1.1.3 Example 2:

1. Previous confirmed nomination already in system:

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
1	0	NP1	2011-09-01	200	2011-08-20 13:59:45	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	CON	Normal

2. Participant to upload the following nomination on 2011-08-21 15:01:02

TransactionId	NominationPointCode	NominationGasDate	Quantity	UOM
2	NP1	2011-09-01	300	GJ

3. Nomination is accepted by APA at 2011-08-22 16:01:03

4. Participant to query nomination status using nomination status request

CustomerCode	ShipperContractCode	ServiceContractCode	NominationPointCode	StartGasDate	EndGasDate	NominationStatus	TransactionId
			NP1	2011-09-01	2011-09-01		2

5. The following record will be returned.

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
2	1	NP1	2011-09-01	300	2011-08-21 15:01:02					REQ	Normal
2	2	NP1	2011-09-01	300	2011-08-21 15:01:02					PEN	Normal
2	3	NP1	2011-09-01	300	2011-08-21 15:01:02	300	2011-08-22 16:01:03			ACC	Normal
2	4	NP1	2011-09-01	300	2011-08-21 15:01:02	300	2011-08-22 16:01:03	300	2011-08-22 16:01:03	CON	Normal

7.1.2 Querying without transaction ID:

7.1.2.1 Description

When a submitted nomination status request does not contain a TransactionId, only the latest nomination data is returned.

7.1.2.2 Example 1:

1. Previous confirmed nomination already in system:

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
1	0	NP1	2011-09-01	200	2011-08-20 13:59:45	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	CON	Normal

2. Participant to upload the following nomination on 2011-08-21 15:01:02

TransactionId	NominationPointCode	NominationGasDate	Quantity	UOM	NominationStatus
2	NP1	2011-09-01	200000	GJ	CON

3. Nomination was rejected by APA.
4. Participant to query nomination status using nomination status request

CustomerCode	ShipperContractCode	ServiceContractCode	NominationPointCode	StartGasDate	EndGasDate	NominationStatus	TransactionId
			NP1	2011-09-01	2011-09-01		

5. The following record will be returned. When querying without a TransactionId only the latest daily record will be returned. The submitted nomination was rejected and replaced by the last confirmed nomination.

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
2	3	NP1	2011-09-01	200	2011-08-20 13:59:45	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	CON	Normal

7.1.2.3 Example 2:

1. Previous confirmed nomination already in system:

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
1	1	NP1	2011-09-01	200	2011-08-20 13:59:45	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	CON	Normal

2. Participant to upload the following nomination on 2011-08-21 15:01:02

TransactionId	NominationPointCode	NominationGasDate	Quantity	UOM
2	NP1	2011-09-01	300	GJ

3. Nomination is accepted by APA at 2011-08-22 16:01:03

4. Participant to query nomination status using nomination status request

CustomerCode	ShipperContractCode	ServiceContractCode	NominationPointCode	StartGasDate	EndGasDate	NominationStatus	TransactionId
			NP1	2011-09-01	2011-09-01		

5. The following record will be returned.

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
2	4	NP1	2011-09-01	300	2011-08-21 15:01:02	300	2011-08-22 16:01:03	300	2011-08-22 16:01:03	CON	Normal

7.1.3 Intraday nomination example

7.1.3.1 Description

When a participant submits an intraday nomination, the record is flag as intraday. Once it has been accepted by APA, the daily record will be update with the intraday data. To see the complete trail of the submitted nomination, participant must submit nominations status request with a TransactionId

7.1.3.2 Example 1:

1. Previous confirmed nomination already in system:

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
1	0	NP1	2011-09-01	200	2011-08-20 13:59:45	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	CON	Normal

2. Participant to upload the following nomination on 2011-09-01 15:01:02

TransactionId	NominationPointCode	NominationGasDate	Quantity	UOM	NominationStatus
2	NP1	2011-09-01	200000	GJ	CON

3. Participant to query nomination status using nomination status request

CustomerCode	ShipperContractCode	ServiceContractCode	NominationPointCode	StartGasDate	EndGasDate	NominationStatus	TransactionId
			NP1	2011-09-01	2011-09-01		2

4. The following record will be returned.

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
2	0	NP1	2011-09-01	200000	2011-09-01 15:01:02					REQ	Intraday

5. APA approve the nomination on 2011-09-01 16:05:02

6. Participant to query nomination status using nomination status request

CustomerCode	ShipperContractCode	ServiceContractCode	NominationPointCode	StartGasDate	EndGasDate	NominationStatus	TransactionId
			NP1	2011-09-01	2011-09-01		2

7. The following record will be returned.

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
2	1	NP1	2011-09-01	200000	2011-09-01 15:01:02	200000				ACC	Intraday
2	1	NP1	2011-09-01	200000	2011-09-01 15:01:02	200000	2011-09-01 16:05:02	200000	2011-09-01 16:05:02	CON	Normal

7.1.4 Intraday nomination example

7.1.4.1 Description

When a participant submits an intraday nomination, the record is flag as intraday. Once it has been accepted by APA, the daily record will be update with the intraday data. If a transaction Id is not submitted with the nomination status query only the latest nomination is shown.

7.1.4.2 Example 2:

1. Previous confirmed nomination already in system:

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
1	0	NP1	2011-09-01	200	2011-08-20 13:59:45	200	2011-08-20 14:59:45	200	2011-08-20 14:59:45	CON	Normal

2. Participant to upload the following nomination on 2011-09-01 15:01:02

TransactionId	NominationPointCode	NominationGasDate	Quantity	UOM	NominationStatus
2	NP1	2011-09-01	200000	GJ	CON

3. Participant to query nomination status using nomination status request

CustomerCode	ShipperContractCode	ServiceContractCode	NominationPointCode	StartGasDate	EndGasDate	NominationStatus	TransactionId
			NP1	2011-09-01	2011-09-01		

4. The following record will be returned.

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
1	0	NP1	2011-09-	200	2011-08-	200	2011-08-	200	2011-08-	CON	Intraday

			01		20 13:59:45		20 14:59:45		20 14:59:45		
--	--	--	----	--	----------------	--	----------------	--	----------------	--	--

5. APA approve the nomination on 2011-09-01 16:05:02
6. Participant to query nomination status using nomination status request

CustomerCode	ShipperContractCode	ServiceContractCode	NominationPointCode	StartGasDate	EndGasDate	NominationStatus	TransactionId
			NP1	2011-09-01	2011-09-01		

7. The following record will be returned.

TransactionId	Version Number	Nomination PointCode	Nomination GasDate	Requested Quantity	Requested Date	Accepted Quantity	Accepted Date	Confirmed Quantity	Confirmed Date	Nomination Status	Nomination Type
2	1	NP1	2011-09-01	200000	2011-09-01 15:01:02	200000	2011-09-01 16:05:02	200000	2011-09-01 16:05:02	CON	Normal

7.2 Nomination Status

7.2.1 Description

When the nomination is received by EC it is assigned with a REQ status. As the nomination goes through additional business process the assigned status will change according to contractual obligation and pipeline operation. The following section outlines the flow for the nomination status.

7.2.2 Flow Diagram

