

GTC

IGT-Shipper Operational Metering Communications Ancillary Document

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Document Control

Configuration				
Version	Date	Author	Reason for Issue/Summary of Change	Status
0.1	09/11/2011	Tracy Goymer		
0.2	17/11/2011	Tracy Goymer	Further to Meeting held on 16 th Nov, agreed amendments by the group.	
0.3	03/01/2012	Tracy Goymer	File format for K08 moved to correct section. Wording amended on K08	

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Part One – Introduction

1.1 Background

The increase in supplier third party metering activity on IGT networks necessitates the implementation of agreed data exchange processes and file formats. The processes and file formats will apply to the following:

- IGT de-appointments
- MAM id notification to the IGT
- Updated meter asset notifications from the shipper to the IGT

The data exchange processes and file formats will be used for relevant domestic and industrial and commercial meters, unless otherwise agreed bilaterally.

1.2 Headers and Trailers

Each file transaction must be preceded by a single Header record and succeeded by a single Trailer record. A file will typically contain a number of relevant other transactions and records within these but may not contain any other records. The file headers are different therefore please see example headers provided for each flow.

1.2.1 Standard Header

A0177	M	Record Identifier	HEADR	MDD
A0179	M	File Type Code		MDD
A0180	M	Originator Id		MDD
A0181	M	Originator Role		MDD
A0182	M	Recipient Id		MDD
A0183	M	Recipient Role		MDD
A0184	M	Created Date		
A0185	M	Created Time		
A0186	M	File Identifier		
A0187	M	File Usage Code		MDD
A0188	M	Record Count		
A0189	M	Transaction Count		

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- Formatted Table

"HEADR","ORJOB","LEP","SUP","SGM","MAM",20111116,"181633","PN333618","PRDCT",8,1

1.2.21.2.1 Example Standard Trailer

Record
A0177 M Identifier TRAIL MDD

"TRAIL"

Please refer to individual flows for specific Headers and Trailers.

1.3 File Validation

The information supplied within the Header identifies the originator and the recipient of the file. It also provides information surrounding the file content and the number of records contained within each file.

Only one file type can be submitted within a file, but many transactions can be sent within that file. The makeup of each file is, therefore:

- 1 Header
- 0 to many Transaction (of the same file type)
- 1 Trailer

1.4 File Naming Conventions

File naming should be as follows:

Full File Name: CCCNN.CC>NNNNNN.CCC	
Description	Code
The reference number of the organisation sending the file (Text 3 digits long) The "Environment" should be "02" Full Stop to divide the file generation number and file type Text to denote file type – "P" = Production/"T" = Test *Text to denote processing "C" = Critical/"N" = Normal	CCC NN . C C

The “Generation Number” Full Stop to divide the file generation number and file type The “File Type”	NNNNNN . CCC
--	--------------------

*The expectation would be that the files would be sent with “N”

Part Two- Communication

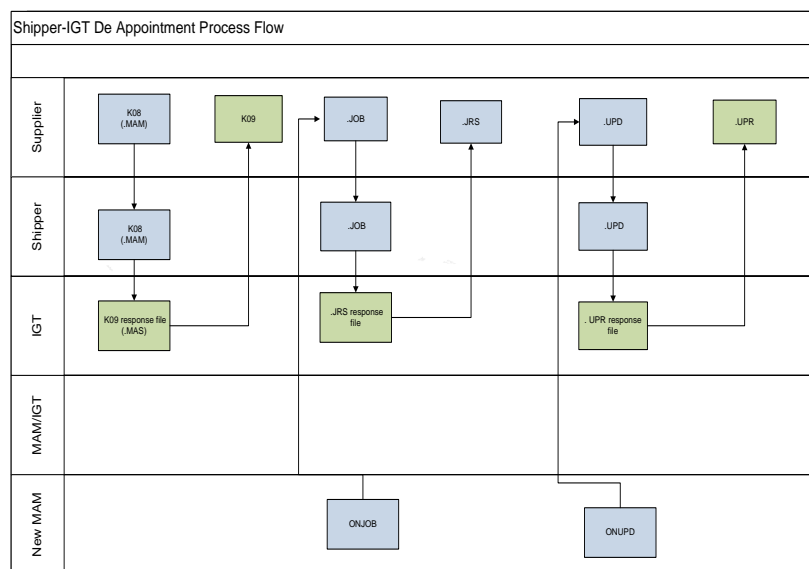
2.1 Introduction

The De appointment process flows will form the communication between the IGT and the Shipper. The K08 will be the notification from the Shipper to the IGT and will be accepted as the de appointment.

The ONAGE flow is not relevant during this de appointment process flow as this process outlines the communication between the Shipper and the IGT.

The timescales will be in line with those dictated in the Gas Act.

2.2 Process Flows



2.3 File Specifications

2.3.1 K08 Definition

The K08 will be sent from the Shipper to the IGT and will be accepted as the notification of the new MAM and the de appointment of the current MAM.

RT_K08_ MAM_GAO_DETAILS

(Meter Point Meter Asset Manager and Gas Act
Ownership Details)

<u>RECORD/FIELD NAME</u>	<u>OPT</u>	<u>DOM</u>	<u>LNG</u>	<u>DEC</u>	<u>DESCRIPTION</u>
TRANSACTION_TYPE	M	T	3	0	DEFINITION: A code identifying the type of request that this record represents.
METER_POINT_REFERENCE	M	N	10	0	DEFINITION: A unique identifier for the point at which a meter is, has been or will be connected to the gas network. These references are less volatile than meter or service identifiers and do not change if the meter is replaced or the service is relayed to the same position. New Meter Point
MAM_ABBREVIATED_NAME	M	T	12	0	DEFINITION: A unique identifier to describe the meter asset manager. When there is a MAM but it is unknown then
MAM_EFFECTIVE_DATE	M	D	8	0	DEFINITION: The date on which Meter Asset Manager is effectively responsible for FORMAT : YYYYMMDD

GAS_ACT_METER_OWNERSHIP_ _TYPE	O T 1 0	DEFINITION: Indicating Gas Act Owner of the Asset Allowable values :- T - Transporter S - Supplier C - Consumer
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2.3.2 File Format K08

Header

HD_A00_STANDARD_HEADER

UK-Link standard header for all files sent between Transco and another Organisation)

<u>RECORD/FIELD NAME</u>	<u>OPT</u>	<u>DOM</u>	<u>LNG</u>	<u>DEC</u>	<u>DESCRIPTION</u>
TRANSACTION_TYPE	M	T	3	0	A code identifying the type of request that this record represents. VALUE : A00
ORGANISATION_ID	M	N	10	0	An reference which uniquely identifies a System User / Organisation.
FILE_TYPE	M	T	3	0	An application specific code used to identify the structure and the usage of the file.
CREATION_DATE	M	D	8	0	The date on which the file was generated. FORMAT : YYYYMMDD
CREATION_TIME	M	M	6	0	The time at which the file was generated (within the Creation Date) FORMAT : HHMMSS
GENERATION_NUMBER	M	N	6	0	A sequence number which represents an issue of a file from the System User (indicated by the organisation id), and, of the file type (indicated by file type) e.g. The first Nominations file from an System User will have the number 1, the second, number 2 etc. Each file sent either from a System User to Transco or from Transco to a System User within one file type must have consecutive numbers.

Trailer

TR_Z99_STANDARD_TRAILER

(Standard trailer for all files sent between other organisations and Transco)

Frequency: 1 per file.

<u>RECORD/FIELD NAME</u>	<u>OPT</u>	<u>DOM</u>	<u>LNG</u>	<u>DEC</u>	<u>DESCRIPTION</u>
TRANSACTION_TYPE	M	T	3	0	DEF: A code identifying the type of information that this record contains. VALUE: Z99
RECORD_COUNT	M	N	10	0	DEF: The number of detail records contained within the file. This should not include the standard header and the standard trailer but should include any file specific headers if specified for this file ie: only A00 and Z99 records excluded.

Minimum file example

"K08",1234567890,"MFE",20110713,""

Maximum file Example

"K08",1234567890,"MFE",20110713,"S"

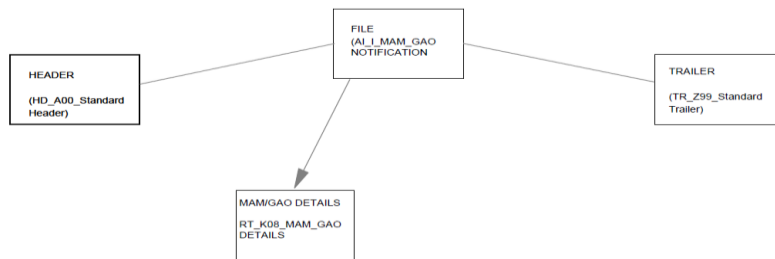
2.3.3 File Validation & Rules

MAM effective date can be retrospective or in the future.

The MAM ID should be as appears in MDD.

2.3.4 K08 Schematics

SYSTEM USER TO TRANSPORTER Change of MAM/GAO File



File Type : MAM
Version 2 Live
Issued 4.9.02
Implementation 22.4.2003

©2002, Transco plc

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2.4 K09 Definition

The K09 will be sent from the IGT to the Shipper. It is the response file to the K08 and will either be an acceptance of the K08 or a rejection. If this is a rejection response, the K09 will be supported by an S72 file, which will contain a rejection code.

RT_K09_ MAM_GAO_DETAILS_RESPONSE

(Meter Point Meter Asset Manager and Gas Act Ownership Details Update
Response)

<u>RECORD/FIELD NAME</u>	<u>OPT</u>	<u>DOM</u>	<u>LN</u>	<u>DEC</u>	<u>DESCRIPTION</u>
TRANSACTION_TYPE	M	T	3	0	DEFINITION: A code identifying the type of transaction that this record represents.
OUTCOME_CODE	M	T	2	0	Details whether the request has been accepted or rejected by Transco.
METER_POINT_REFERENCE	M	N	10	0	DEFINITION: An unique identifier for the point at which a meter is, has been or will be connected to the gas network. These references are less volatile than meter or service identifiers and do not change if the meter is replaced or the service is relayed to the same position. New
MAM_NAME	M	T	12	0	DEFINITION: An unique identifier to describe
MAM_EFFECTIVE_DATE	M	D	8	0	DEFINITION: The date on which Meter Asset Manager is effectively responsible for the meter
GAS_ACT_METER_OWNERSHIP_TYPE	O	T	1	0	DEFINITION: Indicating Gas Act Owner of the Asset Allowable values :-

2.4.1 File Format K09

If K08 was Rejected

Header

"A00",10001399,"MAS",20110713,135959,000001

Trailer

"Z99",2

Minimum file example

"K09","RJ",1234567890,"MFE",20110713,""

"S72","MET00564"

Maximum file Example

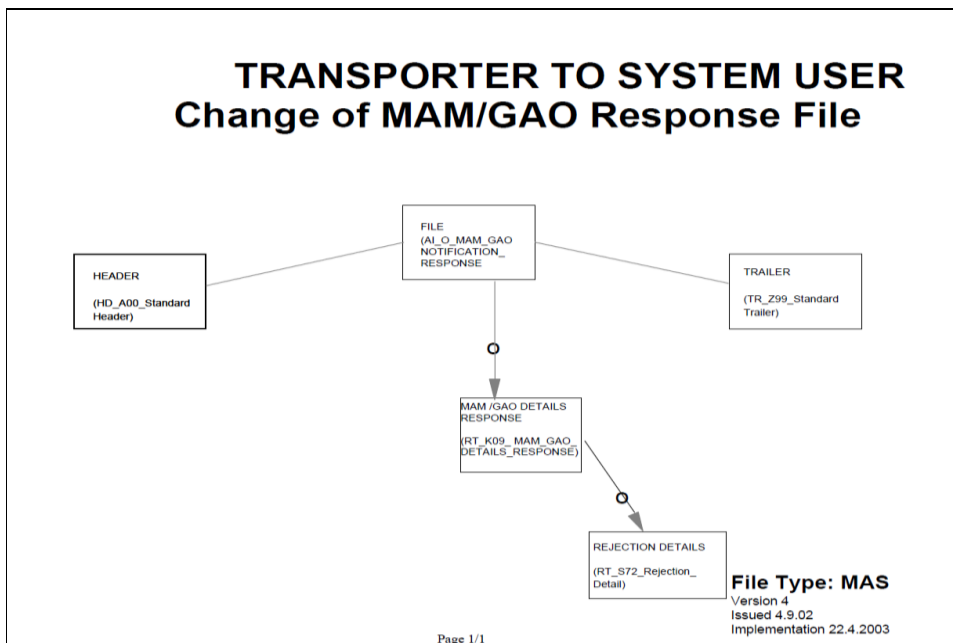
"K09","RJ",1234567890,"MFE",20110713,"S"

"S72","MET00564"

2.4.2 K09 Schematics

2.5 S72 Definition

The S72 will be sent to the Shipper from IGT and is the rejection file that accompanies the K09.



Appendix E S72 File Format (Rejection Detail)

RECORD/FIELD NAME OPT DOM LNG DEC DESCRIPTION

TRANSACTION_TYPE M T 3 0 A code identifying the type of request that this record represents.
VALUE: S72

REJECTION_REASON M T 8 0 A reason for the rejection of the original input request.

The S72 will be sent from the IGT to the Shipper with a rejecting K09.

2.5.1 File Validation and Rules

Where the K09 is rejected, it will be supported by an S72.

2.5.2 S72 Rejection Codes

CDN00011	Minimum data has not been provided	
CNF00046	Invalid market Sector Code	If there is any other value "D" or "I" mentioned for the Market_Sector_code in the input file
CNF00047	Market Sector Code must be provided	The Market_Sector_Code is not specified in the input file.
FIL00010	File contains no records	Information record does not exist
FIL00011	Record contains incorrectly formatted data	Information not supplied in correct format
FIL00012	Records are not in the expected order	Records do not follow correct sequence
FIL00013	Organisation Id on the Header cannot be found	Invalid or missing System User ID
FIL00014	Organisation Id on the Header does not match the Sender's Id in the File Name	The ID on the header is incompatible with the senders ID in the file name
FIL00015	File Type on the header is not the same as that in the File Name	The ID on the header is incompatible with the senders ID in the File name
FIL00016	Generation Number on the Header is not the same as that in File Name	Generation nu
MPO00018	Meter Point reference not provided	The Meter Point reference is mandatory but has not been supplied
MPO00019	Meter Point is not part of a	Supply Point to which this

	live supply point	Meter Point belongs does not have a gas supply
MPO00037	Meter Point is extinct	
MPO00048	Meter Point is part of the bundled service	
MPO00589	Meter Point Status is dead, updates are not allowed	
MRP00010	Invalid Market Participant Name	
MSH00010	A "Meter Instruction" change request has already been accepted for this meter point	All "Meter Instruction" requests subsequent to the first request for a meter point on a given day are rejected
NEQ00014	At least one Meter Point must be provided for a Current Configuration	For an enquiry on a current meter configuration, only one meter point may be specified
NOM00031	Meter Points supplied do not constitute a current Supply Point	
NPR00010	Insufficient notice given for the request	The notice given for the request is too short
ORG00021	Supplier has not been the supplier for the meter point within the last 90 days	
PRM00010	Premise is not in a Live Supply Point	There is no gas supply to this premise
PRM00011	Premise is in more than one Live Supply Point	More than one Supply Point exists for the address quoted on the Confirmation Only process. Meter Point Reference is required to specify which meter is being confirmed.
SHI00001	System User not found	System User ID provided does not exist
SHI00010	System User is not responsible for the Meter Point reference provided	The system user making the request does not currently have any responsibility for the Meter Point identified by the reference they have provided.

SHI00011	System User ID nor provided	System User ID, which is mandatory, has not been supplied
SHI00012	System User prevented from requesting Confirmations	System user is currently prevented from requesting Confirmations
SPA00013	No Supply Point identifying details provided	Unable to identify supply point from details provided
SPA00023	No registered user for the meter point	
SPO00001	Supply Point not found	Supply Point does not exist
SPO00011	Supply Point contains interruptible Meter Points	Interruptible Meter Points are contained within the Supply Point and therefore must be DM
SPO00016	Request denied as supply point ownership is subject to transfer	Transfer of Ownership has been guaranteed to another System User, therefore request cannot be accepted.

2.6 .JOB Definition

The .JOB file will be sent from the Shipper to the IGT and will include the details of the removed and new meter at the supply point.

Examples of ONJOBS sent as *.JOB to GT for meter exchanges

```
"HEADR","ONJOB","XXX","SHIP","YYY","GT","ccymmd","hhmms","PNnnnnnn","PRDCT",recs,flows
"TRANS","JOBID","EXCHG","COMLT","D","ccymmd","CORG","ORCID",
"MTPNT","1234567890","KITCHEN","1.022640,ccymmd,
"ASSET","REMVE","METER","M123456","04","RE"
"REGST","METER","5","SCMH","1.000
"READG","06312"
"ASSET","INSTL","METER","MODEL01","MAN","ccy","M987654321","04","LI"
"METER","U","ET","6","S"
"REGST","METER","5","SCMH","1.000
"READG","00000"
"ASSET","REPRT","INSKT","APPNT","ccymmd","hhmms"
"TRAIL"
```

Header date/time is date/time stamp for flow
Transaction "D" is market sector
Transaction date is "date of notice"
1.022640 is the meter point conversion factor
Meter Point date is last inspection date
04 is asset location code (on both – wouldn't expect this to change very often)
Installed asset has manufacturer code and year of manufacture plus a METER record
Meter record quotes the type of meter, the mechanism, the capacity and the role code under which the
job was originally requested and which is now applicable to the meter (analogy to GAO).
Register records tell you what kind of register then how many dials what units it measures in and the
multiplication factor.
I have also included the record showing that an installation kit is present at the site.
The appointment record states when the job was done (date and time). Because of this the date/time is
not required on the individual readings.

```
"HEADR","ONJOB","ABC","SHIP","XYZ","GT","20111113","090607","PN999999","PRDCT",5680,541
"TRANS","JOBID","EXCHG","COMLT","D","20111112","CORG","nnnn",
"MTPNT","9876543219","UNDER SINK","1.022640,20111111,
"ASSET","REMVE","METER","M2345678","14","RE"
"REGST","METER","5","SCMH","1.000
"READG","06778"
"ASSET","INSTL","METER","METLG210","LPG","2011","M98765432","14","LI"
"METER","U","ET","6","S"
"REGST","METER","5","SCMH","1.000
"READG","00000"
"ASSET","REPRT","INSKT","APPNT","20111111","130000"
"TRAIL"
```

**This scanned example will be replaced with an electronic version.*

Header

"HEADR","ONJOB","**XXX**","**SHIP**","**YYY**","**GT**","ccymmd","hhmms","PNnnnnnn","PRDCT",recs,flows

Trailer

"TRAIL"

2.6.1 .JOB Minimum Example

"TRANS","POLIC1234567890","","EXCHG","","","","","","20110531","OAMI","196000",,

"MTPNT","",1234567890,"**F**","","","","",,

"ASSET","UPDTE","REMVE","METER","","","U6 R5","GW",1998,"E1234567890S","","","RE"

"METER","UPDTE","S","","","","T",,

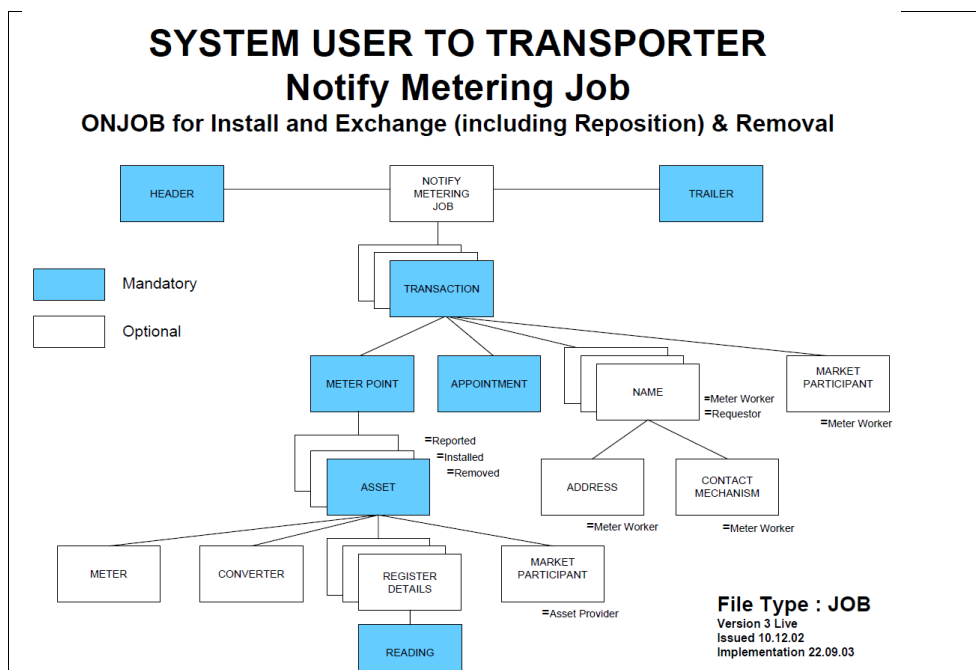
"REGST","UPDTE","METER",4,"SCFH",1.000
 "READG",20110706,,9836"
 "ASSET","","INSTL","METER","","G4","ITR",2011,"G4A1234567890","32","","LI"
 "METER","","S","","6.0000","","",20110706,"S",,
 "REGST","","","METER",5,"SCMH",1.000
 "READG",20110706,,00000"
 "APPNT","","",20110706,,,"121801","

2.6.2 Complete .JOB File Example

"TRANS","POLIC1234567890","Additional Info:Policy meter exchanged - C R to
 CR.,"EDF01","EXCHG","POLIC","JOB123456","JOB123456","COMLT","20110706","D",,"OAMI","A196066",,
 "MTPNT","UPDTE",4199201903,"F","","00","IN SUB BUILDING","FRONT GATE ACCESS CODE
 13456",1.022640,20110706,
 "ASSET","UPDTE","REMVE","METER","C425","CR","U6","ACT",1998,"6519608S","00","IN SUB BUILDING","RE"
 "METER","UPDTE","S","CR",,"","I",20110706,"T",,
 "CONVE","UPDTE","TPD",1.000
 "REGST","UPDTE","METER",4,"SCFH",1.000
 "READG",20110706,1,9836"
 "ASSET","","","INSTL","METER","","CR","G4","ITR",2011,"G4A00564961101","00","IN SUB BUILDING","LI"
 "METER","UPDTE","S","CR",6.0000,"","",20110706,"T",,
 "CONVE","UPDTE","TPD",1.000
 "REGST","","","METER",5,"SCMH",1.000
 "READG",20110706,,00000"
 "APPNT","","",20110706,20110706,,,"121801","122300"

2.6.3 File Validation & Rules

2.6.4 .Job Schematics



2.7 .JRS Definition

The .JRS will be sent to the Shipper from the IGT and is the response file to the .JOB.

Please refer to RGMA Baseline for Datasets

2.7.1 JRS Response Format - Can only be used for Record level responses that pass validation. File/Record validation rejection use the FRJ file

Header

"HEADR","RESPN","IPL","GT","LEP","SHIP",20040805,"231856","PN000012","PRDCT",2,1

Trailer

"TRAIL"

.JOB file was Accepted

Minimum JRS file example Accept

"RESPN", "", ""

"TROUT","RNJOB","ACCP","1234567890","ACPT12345678901", "", ""

Maximum JRS file example Accept

"RESPN","PN000031",20040714,"140141"

"TROUT","RNJOB","ACCP","1234567890","ACPT12345678901","EXCHG", ""

.JOB file was Rejected

Minimum JRS file example Reject

"RESPN","PN123456",20110713,"170629"

"TROUT","RNJOB","REJCT",1234567890,"REJECT123456789", "", ""

"ASSET", "", "INSTL","METER", "", "PP","METUG","GW",1998,"L123456789M","32", "", "LI"

"REJRS", "", "05100", "

Maximum JRS file example Reject

"RESPN","PN123456",20110713,"170629"

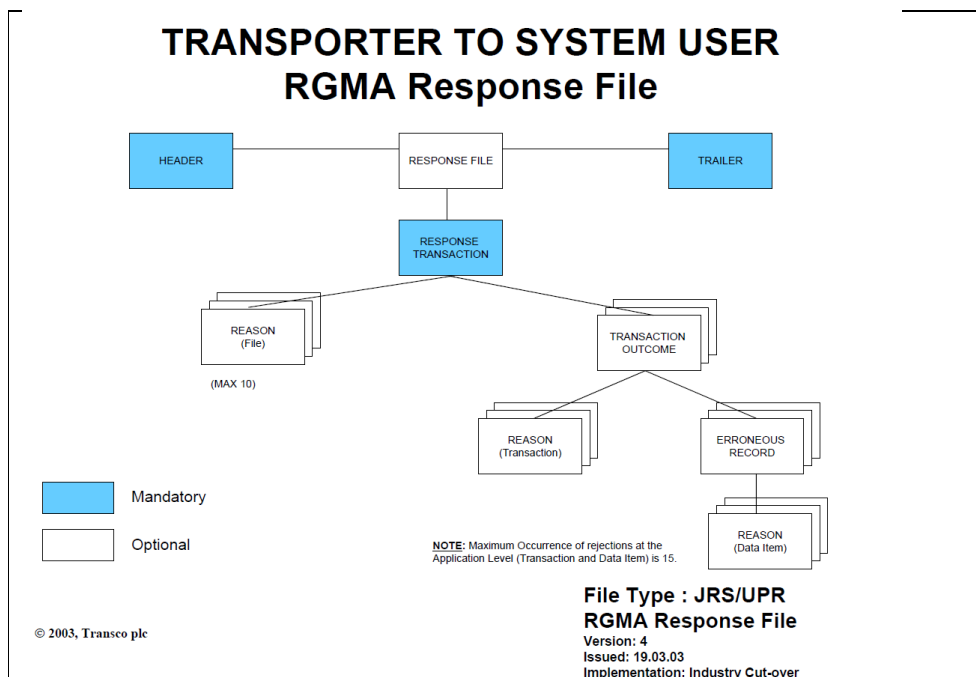
"TROUT","RNJOB","REJCT",1234567890,"REJECT123456789","INSTL", ""

"ASSET", "", "INSTL","METER", "", "PP","METUG","GW",1998,"L123456789M","32", "", "LI"

"REJRS","A0024","05100","Meter already fitted to the Meter Point"

2.7.2 File Validation & Rules

2.7.3 .JRS Schematics



2.8 .UPD Definition

The .UPD will be sent from the Shipper to the IGT. The .UPD flow notifies the IGT of an Update at the Supply Point, for example updated address information.

The .UPD flow would **only** be sent in the event of an Update.

Please refer to RGMA Baseline for Dataset

2.8.1 .UPD File Minimum Example (Update File)

An update of the number of digits on a meter, where there was no associated job notification:

1	Transaction	A0177 – Record Identifier A0055 – Transaction Reference A0144 – Transaction Type Code
1.2	Meter Point	A0177 – Record Identifier A0072 – Meter Point Reference
1.2.2	Asset	A0177 – Record Identifier A0144 – Transaction Type Code A0024 – Asset Class Code e.g. Meter A0022 – Serial Number
1.2.2.1	Meter	A0177 – Record Identifier
1.2.2.3	Register Detail	A0124 – Register Type Code = Meter A0178 – Notify A0121 – Number of Dials

Minimum .UPD File Example

"HEADR","ONUPD","LEP","SUP","GPL","MAM",20110706,"180804","PN123456","PRDCT",5,1

"TRANS","5584843","","","UPDTE","","","","","","","","",""

"MTPNT","","1234567890","","","","","","",""

"ASSET","","","UPDTE","METER","","","","","L1059937975M","","","",""

"METER","","","","","","","","",""

"REGST","UPDTE","","5","",""

"TRAIL"

Complete .UPD File Example

"HEADR","ONUPD","LEP","SHIP","GPL","GT",20110706,"180804","PN123456","PRDCT",15,1

"TRANS","5585795","COLLECT METER AT 11 EUSTON ROAD SE15
7JT","","UPDTE","APPNT","JOB123456789012","JOB123456789012","","","D","","",""

"ADDRS","MTRPT","BUILDING CONCEALED BEHIND OFFICE","FLAT 1","123","BACK MILTON ROAD","MILTON
ROAD","MILBANK","WESTMINSTER","HOVE","EAST SUSSEX","BN14 8NL",515422,104541,000000,

"NAME","KEYH","MR","J","BLOGGS","DOG AT PREMISIS","PASSWORD1"

"CONTM","TEL","0200 100 999"

"MTPNT","UPDTE",1234567890,"F","LI","00","ONE OF THE WALLS OUTSIDE IN WHITE BOX","FRONT BARRIER
CODE 1223",1.022640,20110531,

"ADDRS","MTRPT","BUILDING CONCEALED BEHIND OFFICE","FLAT 1","123","BACK MILTON ROAD","MILTON
ROAD","MILBANK","WESTMINSTER","HOVE","EAST SUSSEX","BN14 8NL",515422,104541,000000,

"ASSET","UPDTE","UPDTE","METER","2700","CR","200/100","PCC",1998,"G4AK1234567890","00","ONE OF
THE WALLS OUTSIDE IN WHITE BOX","LI"

"METER","UPDTE","S","CR",6.000,"","I","S",20110531,0.1

"CONVE","UPDTE","PT",0.000000

"REGST","UPDTE","METER",5,"SCFH",0.01

"READG",20110531,00,"12345"

"MKPRT","MAP","GTM"

"NAME","KEYH","MR","J","BLOGGS",

"ADDRS","MTRPT","BUILDING CONCEALED BEHIND OFFICE","FLAT 16A","1","TOP NORTHBROOK
ROAD","NORTHBROOK ROAD","MILBANK","WESTMINSTER","HOVE","EAST SUSSEX","BN14
8NL",515422,104541,000000,

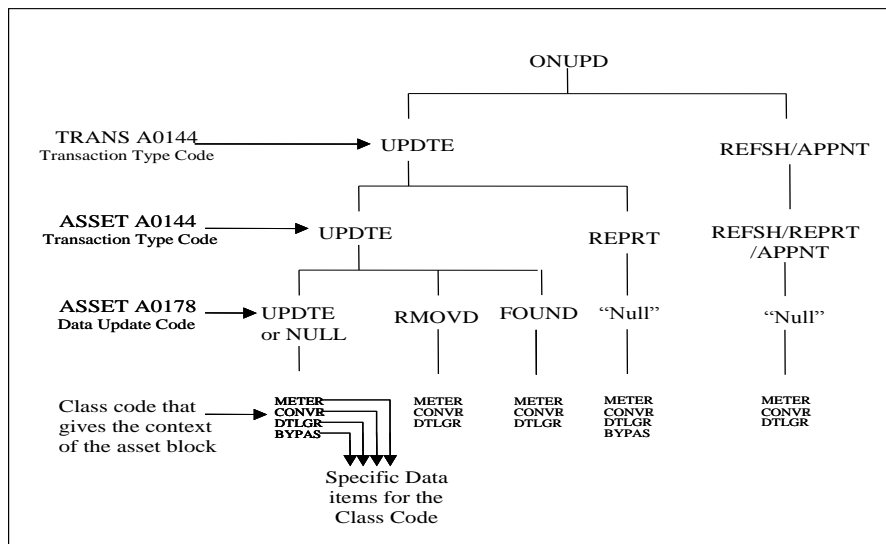
"CONTM","TEL","0200200100"

"TRAIL"

2.8.2 .UPD Validation & Rules

The supplier ID & entity should be the same for K08 & K09 .i.e. Shipper Reference e.g. 408(??)

2.8.3 .UPD Schematics



2.9 .UPR Definition

The UPR will be sent from the IGT to the Shipper and is the response file to the .UPD.

Please refer to RGMA Baseline for Dataset

.UPR Response Format - Can only be used for Record level responses that pass validation. File/Record validation rejection use the FRJ file(??)

.UPD file was Accepted

Minimum UPR file example Accept

"HEADR","RESPN","IPL","GT","LEP","SHIP",20110713,"165959","PN123456","PRDCT",2,1

"RESPN","",,,

"TROUT","RNUPD","ACCP","1234567890","3375","",""

"TRAIL"

Maximum UPR file example Accept

"HEADR","RESPN","IPL","GT","LEP","SHIP",20110713,"165959","PN123456","PRDCT",2,1

"RESPN","PN000018",20040806,"080617"

"TROUT","RNUPD","ACCP","48824000","3375","APPNT",""

"TRAIL"

.UPD file was Rejected

Minimum UPR file example Reject

"HEADR","RESPN","IPL","GT","LEP","SHIP",20110713,"165959","PN123456","PRDCT",4,1

"RESPN","PN000018",20040806,"080617"

"TROUT","RNUPD","REJCT",1234567890,"REJECT123456789","",""

"ASSET","UPDTE","UPDTE","METER","","","U6","OOP",1900,"L123456789M","32","UNKNOWN","LI"

"REJRS","","02108",""

"TRAIL"

Maximum UPR file example Reject

"HEADR","RESPN","IPL","GT","LEP","SHIP",20110713,"165959","PN123456","PRDCT",4,1

"RESPN","PN000018",20040806,"080617"

"TROUT","RNUPD","REJCT",1234567890,"REJECT123456789","UPDTE",""

"ASSET","UPDTE","UPDTE","METER","","","U6","OOP",1900,"L123456789M","32","UNKNOWN","LI"

"REJRS","A0060","02108","Value not Recognised"

"TRAIL"

2.9.2 File Validation & Rules

2.9.3 .UPR Schematics

TRANSPORTER TO SYSTEM USER RGMA Response File

