IP New – Interface for limitation data exchange

v0.5

# Version control

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Change |
| 2023.10.29. | Buriusz Beáta | 0.1 | Master copy created |
| 2023.10.11. | Szabó Krisztián | 0.2 | In KORTORZS file „Name”, „Postal code” and „City” fields are optional and KORELREND\_minta\_3.csv changed |
| 2023.12.13. | Buriusz Beáta, Szernai Judit | 0.3 | Error codes, Change request message filenames |
| 2024.01.15 | Szabó László | 0.4 | Add new error codes in the case of KORTORZS processing |
| 2024.03.13. | Buriusz Beáta | 0.5 | Rename fields:  Intezkedes hatalyanak kezdete 🡪 Hatalyba lepes kezdete;  Intezkedes hatalyanak vege 🡪 Hatalyba lepes vege; |

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# General part

The Government 399/2023. (VIII. 24.) Government decree on measures to preserve the security of natural gas supply is a consequence of the decree, the compilation of the restriction classification and the support of the restriction order with an IT solution. Pursuant to this, a functionality supporting the compilation of the restriction classification will be developed in the IP system, through which it is possible to receive distributor data, perform business inspections, create reports, and notify distributors and direct consumers of the actual restriction when a restriction is ordered.

In order to handle the expected large amount of data, a communication channel enabling file-based data exchange will be established via the SFTP protocol.

## Information about the SFTP server solution

Market participants will be able to send and receive files in the folders corresponding to the message types on the SFTP server operated by FGSZ.

The folder structure of the partners' "home" directory in the live and test environments:

• IN

* ARCH
* KORALL
* KORTORZS

• OUT

* KORALL
* KORTORZS
* KORELREND

SFTP users upload the files to be sent to the KORALL, KORTORZS folders in the IN folder. The IP system monitors the contents of the above folders according to the specified schedule, and if it finds a new, completed file, it processes and moves it. After processing, all processed files are placed in the ARCH folder in the IN folder.

To ensure that the application only starts processing fully uploaded files, we plan to use the following solution: the uploader starts uploading all files with the extension ".FILEPART" and only renames the file to its original name when the upload is complete .

For each incoming file, the system creates a response file with the result of the processing. The system creates the name of the response file from the name of the incoming file by adding the string "\_RESPONSE" and the timestamp "\_<YYYYMMDDHHMMSS>" containing the time the file was created. These files are placed in the KORALL, KORTORZS folders in the OUT folder. Partners can consider their data transmission successful if the response file contains the characters "OK" and only these. So, if the IP system did not send a response message or the content of the response message differs from "OK", then nothing from the sent message was processed.

When a restriction is ordered, the Restrictions list is uploaded to the KORELREND folder in the OUT folder.

Files older than 30 days are deleted from the subfolders of the OUT folder.

In the document library of the IP system, all processed incoming files and the corresponding outgoing files will be available to partners in the same directory structure as SFTP. The IP system stores all files used in communication in compressed form.

SFTP accesses:

|  |  |
| --- | --- |
| **External DNS name** | **Port** |
| **Live**: sftp.fgsz.hu | 22022 |
| **Test**: sftpuat.fgsz.hu | 62140 |

# Limitation data exchange

## KORTORZS message

### Description

The KORTORZS file enables the provision of data on the limitation master data of the PODs belonging to the sending partner. The file can contain the data for all PODs, or part of the data set can be sent in one file (even per POD).

In the case of the user partner acting in his own right supplied by the transmission line and other users supplied by the transmission line, the shipper supplying him/her is obliged to send the data.

### Message with request

File name: <PARTNEREICCODE>\_<RECEIVEREICCODE>\_KORTORZS\_<TimeStamp: YYYYMMDDHHMMSS>.CSV

(Pl.: 39X60ALPIQCSEP1M\_21X-HU-A-A0A0A-8\_KORTORZS\_20231124091920.CSV):

* PARTNEREICCODE - the partner's EIC code in the IP system,
* RECEIVEREICCODE - the receiver's EIC code in the IP system
* KORTORZS – constant text,
* TimeStamp - it is recommended to assign the creation time to the file name in the specified format, but other unique numerical values of 14 characters are also acceptable;

File format: CSV (encoding UTF-8), field separator: „;” (semicolon).

File location in SFTP server: IN / KORTORZS

#### Structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **English name** | **Format / type** | **Filling** | **Description / Note** |
| Uzenet tipus | Message Type | Mandatory,  String | Value set: T | Always „T” |
| Uzenet kuldoje | Message Sender | Mandatory,  String | Partner EIC code | E.g.: 39XENERGYFAIR186 |
| Uzenet fogadoja | Message Receiver | Mandatory,  String | Partner EIC code | E.g.: 21X-HU-A-A0A0A-8 |
| Felhasznalasi hely neve | Name | String |  | E.g.: Korlát kft. |
| Iranyitoszam | Postal Code | String |  | E.g.: 1130 |
| Helyseg | City | String |  | E.g.: Budapest |
| Utca | Street Address | String |  | E.g.: Korlát utca 1 |
| Helyrajzi szam | Lot Number | String |  | E.g: 902/A/2 |
| POD azonosito | POD Code | Mandatory,  String | POD code | E.g.: 39N060035974000F |
| Halozati pont EIC-kodja | IP Network Point EIC Code | Mandatory,  String | Network Point EIC Code | E.g.: 39ZVETELJCS17ENP |
| Halozati pont | IP Network Point Code | Mandatory,  String | IP Network Point Code | E.g.: VETELJCS17EN |
| Korlatozasi kategoria | Limitation Category | Mandatory,  Number (1,0) | Value set: 1, 2, 3; | E.g.: 2 |
| 1.kivetel (KWH/nap) | First Exception kWh/day | Number (18,0) |  | E.g.: 530 |
| Ervenyesseg vege 1. kivetel | First Exception Valid To | Date, format: yyyy.mm.dd |  | E.g.: 2029.10.01 |
| 2.kivetel (KWH/nap) | Second Exception kWh/day | Number (18,0) |  | E.g.: 20 000 |
| Ervenyesseg vege 2. kivetel | Second Exception Valid To | Date, format: yyyy.mm.dd |  | E.g.: 2024.10.01 |
| 3.kivetel (IGEN/NEM) | Is Third Exception (YES/NO) | Mandatory,  String | Value set: IGEN - YES, NEM - NO; | E.g.: NEM |
| 3.kivetel (KWH/nap) | Third Exception kWh/day | Number (18,0) |  | If the „Is Third Exception (YES/NO)” = „IGEN”, it can be filled. If in this case, it is empty, the total consumption belongs to the 3rd exception. |
| Ervenyesseg vege 3. kivetel | Third Exception Valid To | Date, format: yyyy.mm.dd |  |  |
| 4.kivetel (KWH/nap) | Fourth Exception kWh/day | Number (18,0) |  | E.g.: 0 |
| Ervenyesseg vege 4. kivetel | Fourth Exception Valid To | Date, format: yyyy.mm.dd |  |  |
| 5.kivetel (IGEN/NEM) | Is Fifth Exception (YES/NO) | Mandatory,  String | Value set: IGEN - YES, NEM - NO; | E.g.: NEM |
| 5.kivetel (KWH/nap) | Fifth Exception kWh/day | Number (18,0) |  | If the „Is Fifth Exception (YES/NO)” = „IGEN”, it can be filled. If in this case, it is empty, the total consumption belongs to the 5th exception. |
| Ervenyesseg vege 5. kivetel | Fifth Exception Valid To | Date, format: yyyy.mm.dd |  |  |
| 6.kivetel (IGEN/NEM) | Is Sixth Exception (YES/NO) | Mandatory,  String | Value set: IGEN - YES, NEM - NO; | E.g.: IGEN |
| 6.kivetel (KWH/nap) | Sixth Exception kWh/day | Number (18,0) |  | If the „Is Sixth Exception (YES/NO)” = „IGEN”, it can be filled. If in this case, it is empty, the total consumption belongs to the 6th exception. |
| Ervenyesseg vege 6. kivetel | Sixth Exception Valid To | Date, format: yyyy.mm.dd |  |  |
| Vegrehajtasra rend. Idotart. (ora) | Hours Execution Limitation | Number (2,0) | Value set: 4 – 72; | Default 4 h, max. 72 h  E.g.: 4 |
| Korlatozasi kapcsolattarto szervezeti egyseg | Contact Name | Mandatory,  String |  | E.g.: Diszpécser szolgálat |
| Korlatozasi kapcsolattarto telefonszama | Contact Telephone | Mandatory,  String |  | E.g.: 36-20-6563457 or  36-20-656-3457 or 36206563457 |
| Korlatozasi kapcsolattarto email cime | Contact Email | Mandatory,  String |  | E.g.: info@korlat.hu |
| Rendszeruzemeltetoi visszajelzes | System operator feedback | String |  | Not used by FGSZ |

#### CSV Example



### Message with response

file name: <Eredeti fájl neve kiterjesztés nélkül>\_RESPONSE\_<TimeStamp:YYYYMMDDHHMMSS>.CSV

(Pl.: 39X60ALPIQCSEP1M\_KORTORZS\_20231124091920\_RESPONSE\_20231124110303.CSV):

* REPONSE – constant text,
* TimeStamp - shows the creation time in the specified format;

File format: CSV (encoding UTF-8), field separator: „;” (semicolon).

Upload location on the SFTP server: OUT / KORTORZS

In case of successful upload, the contents of the response file: „OK”.

In case of unsuccessful upload, the file structure is formed according to the following chapter.

#### Structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **English name** | **Format / type** | **Filling** | **Description / Note** |
| Hibakod | ErrorCode | String | Value set: see below; | The error code. E.g.: LI001 |
| Sor | Row | String |  | The number of the line containing the error. |
| Oszlop | Column | String |  | The number of the column containing the error. It is empty in case of error message LI001. |
| Hibauzenet | ErrorMessage | String | Value set: see below; |  |

***Error codes:***

|  |  |
| --- | --- |
| **Error code** | **Error message** |
| LI0001 | The number of columns {0} is not proper!  Line=[{1}] |
| LI0002 | Wrong data type: line =[{0}], column=[{1}] |
| LI0003 | The field is mandatory:  line=[{0}], column=[{1}] |
| LI0004 | Name of the file {0} is not proper! |
| LI0005 | The content of the file does not correspond to a CSV file with UTF-8 encoding. |
| LI0006 | The size of file can not be greater than 100 MB. |
| LI0007 | The file contains illegal characters. |
| LI0105 | The value of the „Vegrehajtasra rend.Idotart. (ora)” field must be between 4 and 72! |
| LI0107 | The {0} Network Point Restriction POD owner is not the FGSZ! |
| LI0108 | The value of the 'POD azonosito' field ({0}) is not the same as the POD code ({1}) given at the Network Point! |
| LI0109 | The value of the 'Halozati pont' field ({0}) is not matching with the Code field of any valid Network Point! |
| LI0110 | The value of the 'Halozati pont EIC-kodja' field ({0})is not the same as the POD code ({1}) given at the Network Point! |
| LI0116 | Invalid Restriction category {0}. Valid values are: 1, 2 , 3! |
| LI0122 | The 'Valid to' field {0} cannot be earlier than the current day! |
| LI0125 | The value in the '{0}' field ({1}) does not match the value stored for the current restriction action ({2}). During the restriction , the '{0}' field cannot be modified! |
| LI0126 | If the value of the '{0}' field is NEM, then the '{1}' field cannot be filled! |
| LI0132 | The format of the email ({0}) is not valid! |
| LI0133 | The format of the phone number ({0}) is not valid! |

Exceptions are the following error codes, in which case the file will not be included in the data transfers and the partner will receive a notification of the unsuccessful upload in the LI0001 e-mail message, which will contain the error code.

* LI0004
* LI0005
* LI0006
* LI0007

#### Example – In the event of success



#### Example – In the event of error



## KORALL message

### Description

The KORALL file contains the allocation per POD belonging to the sending partner (belonging network operator) per network point and per gas day. The file can contain the data for all PODs, or a part of the data set can be sent in one file. Data can be sent multiple times for one gas day, network point and POD in a data service period, with the stipulation that the last data sent will always be valid.

### Message with request

File name: <PARTNEREICCODE>\_<RECEIVEREICCODE>\_KORALL\_<TimeStamp: YYYYMMDDHHMMSS>.CSV

(Pl.: 39X60ALPIQCSEP1M\_21X-HU-A-A0A0A-8\_KORALL\_20231124091920.CSV):

* PARTNEREICCODE - the partner's EIC code in the IP system,
* RECEIVEREICCODE - the receiver's EIC code in the IP system
* KORALL – constant text,
* TimeStamp - it is recommended to assign the creation time to the file name in the specified format, but other unique numerical values of 14 characters are also acceptable;

File format: CSV (encoding UTF-8), field separator: „;” (semicolon).

File location in SFTP server: IN / KORALL

#### Structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **English name** | **Format / type** | **Filling** | **Description / Note** |
| Uzenet tipus | Message Type | Mandatory,  String | Value set: N - Normal operation, KESZ – Early forecast level, VH – Alert and emergency level; | E.g.: VH |
| Gaznap | GasDay | Mandatory,  Date, format: yyyy.mm.dd |  | E.g.: 2019.01.12 |
| Eloszto | NNO Workspace Code | Mandatory,  String | NNO Workspace Code | E.g.: HULTIGAZ |
| Meresipont (POD) | Limitation POD Code | Mandatory,  String | POD code | E.g.: 39N060005978000F |
| Halozatipont | Network Point Code | Mandatory,  String | Network Point Code | E.g.: VETELJCS17EN |
| Szallittato | Shipper Workspace Code | String | Shipper Workspace Code | E.g.: HUFOGAZKER (It is not mandatory for collector POD) |
| Szallittatopar | Shipper Pair Workspace Code | String | Shipper Pair Workspace Code | E.g.: HUFOGAZKER (It is not mandatory for collector POD) |
| Allokalt mennyiseg (KWH) | Allocated Quantity kWh | Mandatory,  Number (18,0) |  | E.g.: 29550 |
| Kategoria | Limitation Category | Mandatory,  String | Value set: 1, 2, 3; | E.g.: 2 |
| 1.kivetel (KWH/nap) | First Exception kWh/day | Number (18,0) |  | E.g.: 530 |
| 2.kivetel (KWH/nap) | Second Exception kWh/day | Number (18,0) |  | E.g.: 20 000 |
| 3.kivetel (IGEN/NEM) | Is Third Exception (YES/NO) | Mandatory,  String | Value set: IGEN - YES, NEM - NO; | E.g.: NEM |
| 3.kivetel (KWH/nap) | Third Exception kWh/day | Number (18,0) |  | If the „Is Third Exception (YES/NO)” = „IGEN”, it can be filled. If in this case, it is empty, the total consumption belongs to the 3rd exception. |
| 4.kivetel (KWH/nap) | Fouth Exception kWh/day | Number (18,0) |  | E.g.: 0 |
| 5.kivetel (IGEN/NEM) | Is Fifth Exception (YES/NO) | Mandatory,  String | Value set: IGEN - YES, NEM - NO; | E.g.: NEM |
| 5.kivetel (KWH/nap) | Fifth Exception kWh/day | Number (18,0) |  | If the „Is Fifth Exception (YES/NO)” = „IGEN”, it can be filled. If in this case, it is empty, the total consumption belongs to the 5th exception. |
| 6.kivetel (IGEN/NEM) | Is Sixth Exception (YES/NO) | Mandatory,  String | Value set: IGEN - YES, NEM - NO; | E.g.: NEM |
| 6.kivetel (KWH/nap) | Sixth Exception kWh/day | Number (18,0) |  | If the „Is Sixth Exception (YES/NO)” = „IGEN”, it can be filled. If in this case, it is empty, the total consumption belongs to the 6th exception. |
| Vegrehajtasra rend. Idotart. (ora) | Hours Executing Limitation (hour) | Mandatory,  Number (2,0) | Value set: 4 – 72; | Default 4 h, max. 72 h.  E.g.: 4 |
| Orai meres kwh/h | Last Hourly Measured kWh/h | Number (18,0) |  | E.g.: 300  - In the case of normal operation: Not mandatory  - In the case of early forecast level or Alert and emergency level: Mandatory |
| Meres vonatkozasi ideje | Last Hourly Measured GasHour | String | GasHour | E.g.: in 2023.09.08, in the case of a measurement made at 14:23: ”2023.09.08-09GH”.  The first 10 characters are the gas day „yyyy.mm.dd” formátumban majd „-„after that, the serial number of the gas meter in 2 characters and finaly the „GH” characters  - In the case of normal operation: Not mandatory  - In the case of early forecast level or Alert and emergency level: Mandatory |

In the case of residential collection POD, the following rules must be taken into consideration:

* In the "Limitation POD Code" field, you must enter the "Residential collection POD" code provided on the parner's data sheet.
* The value of the „Limitation Category” field is always 3.
* The following fields must be left empty: " Shipper Workspace Code ", " Shipper Pair Workspace Code ", " Last Hourly Measured kWh/h ", " Last Hourly Measured GasHour ";
* The data must be provided in one line for each network point.

#### CSV Example



### Message with response

File name: <Eredeti fájl neve kiterjesztés nélkül>\_RESPONSE\_<TimeStamp:YYYYMMDDHHMMSS>.CSV

(Pl.: 39X60ALPIQCSEP1M\_KORALL\_20231124091920\_RESPONSE\_20231124110303.CSV):

* REPONSE – constant text,
* TimeStamp - shows the creation time in the specified format;

File format: CSV (encoding UTF-8), field separator: „;” (semicolon).

Upload location on the SFTP server: OUT / KORALL

In case of successful upload, the contents of the response file: „OK”.

In case of unsuccessful upload, the file structure is formed according to the following chapter.

#### Structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **English name** | **Format / type** | **Filling** | **Description / Note** |
| Hibakod | ErrorCode | String | Value set: see below; | The error code. E.g.: LI001 |
| Sor | Row | String |  | The number of the line containing the error. |
| Oszlop | Column | String |  | The number of the column containing the error. It is empty in case of error message LI001. |
| Hibauzenet | ErrorMessage | String | Value set: see below; |  |

***Error codes:***

|  |  |
| --- | --- |
| **Hibakód** | **Hibaüzenet** |
| LI0001 | The number of columns {0} is not proper!  Line=[{1}] |
| LI0002 | Wrong data type: line =[{0}], column=[{1}] |
| LI0003 | The field is mandatory:  line=[{0}], column=[{1}] |
| LI0004 | Name of the file {0} is not proper! |
| LI0005 | The content of the file does not correspond to a CSV file with UTF-8 encoding. |
| LI0006 | The size of file can not be greater than 100 MB. |
| LI0007 | The file contains illegal characters. |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| LI0101 | Data received for an inactive data service day ({day}). |
| LI0102 | The data service period has ended. End of data service: {0}! |
| LI0103 | You cannot send data to the ({0}) network point. |
| LI0104 | In the case of early forecast, alarm and emergency level data service, the last hour's measurement data is mandatory! |
| LI0105 | The value of the „Vegrehajtasra rend.Idotart. (ora)” field must be between 4 and 72! |
| LI0106 | In the case of a residential collection POD, the field "Is Fifth Exception" can only be filled with YES. |
| LI0109 | The value of the "Halozati pont" field ({0}) is not matching with the Code field of any valid Network Point! |
| LI0111 | The data service time window is not open. Start of data service: {0}! |
| LI0112 | The value of the 'Gaznap' field {0} can not be found in the Gas Calendar! |
| LI0113 | The value of the 'Eloszto' field ({0}) is not matching with the Code field of any Active Partner! |
| LI0114 | The value of the 'Szallittato' field ({0}) is not matching with the Code field of any Active Partner! |
| LI0115 | The value of the 'Szallittatopar' field ({0}) is not matching with the Code field of any Active Partner! |
| LI0116 | Invalid Restriction category {0}. Valid values are: 1, 2 , 3! |
| LI0117 | There is no Limitation data service with Active state! |
| LI0118 | Gas hour {0} not found in Gas period calendar! |
| LI0121 | Invalid Category. In case of a residential collection POD, the value of the "Category" field can only be 3! |
| LI0124 | No data can be sent to network point {0}. The point is not marked with the Affected by restriction flag! |
| LI0125 | The value in the '{0}' field ({1}) does not match the value stored for the current restriction action ({2}). During the restriction , the '{0}' field cannot be modified! |
| LI0126 | If the value of the '{0}' field is NEM, then the '{1}' field cannot be filled! |
| LI0128 | The file contains repetitions! A POD code for a given network point can only be entered once per gas day. Repetitive data series: {0} {1} {2}! |
| LI0129 | The file contains POD code repetitions. Repeating data: {0}! |

Exceptions are the following error codes, in which case the file will not be included in the data transfers and the partner will receive a notification of the unsuccessful upload in the LI0001 e-mail message, which will contain the error code.

* LI0004
* LI0005
* LI0006
* LI0007

#### Example – In the event of success



#### Example – In the event of error



## KORELREND message

### Description

If a restriction measure is ordered, the FGSZ sends this message type to the related network operators (NNO). Messages are generated only during a limitation period (ordering the first measure and the final closure).

Only those NNOs who have a POD restriction at the network point operated by the NNO will receive it. A given record always contains the maximum purchaseable quantity in kWh/day unit that can be consumed for a POD under the scope of the measure with the given serial number (beginning of regulatory authority - end of regulatory authority).

For a POD, the message may contain the following types of records:

* VH\_uj: (VH\_new) In the case of the first ordered restriction during a restriction period.
* VH\_visszavont: (VH\_withdrawn) In case of publication of incorrect data, the type of the previous/wrong record in the re-publication.
* VH\_helyesbito: (VH\_correctional) In case of incorrectly published data, the type of record containing the correct data.
* VH\_modositas: (VH\_modification) It includes the modification of the POD restriction within a restriction period.
* VH\_lezart: (VH\_closed) When the measure closing the limitation period is published, a record of this type is created for all previously affected PODs.

Within a restriction period (between VH\_new and VH\_closed measure types), the message always contains the data of the current measure and the preceding measure (if there was a preceding measure).

### Message with request

File name: <PARTNEREICCODE>\_KORELREND\_<TimeStamp: YYYYMMDDHHMMSS>.CSV

(Pl.: 39X60ALPIQCSEP1M\_KORELREND\_20231124091920.CSV):

* PARTNEREICCODE - the partner's EIC code in the IP system,
* KORELREND – constant text,
* TimeStampnél - it is recommended to assign the creation time to the file name in the specified format, but other unique numerical values of 14 characters are also acceptable;

File format: CSV (encoding UTF-8), field separator: „;” (semicolon).

File location in SFTP server: OUT/KORELREND

#### Structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **English name** | **Format / type** | **Filling** | **Description / Note** |
| Intezkedes tipusa\* | Limitation Action Type | Mandatory,  String | Value set: VH\_uj; VH\_visszavont; VH\_helyesbito; VH\_modositas; VH\_lezart; | E.g.: VH\_uj |
| Intezkedes azonosito | Limitation Action ID | Mandatory,  String |  | E.g.: korl\_202309080913\_v2, Serial number of the published measure. |
| Intezkedes ideje | Limitation Action Time | Mandatory,  Date and Time, format: yyyy.mm.dd hh:mm:ss |  | E.g.: 2023.09.08 10:13:00 |
| Hatalyba lepes kezdete | Valid From GasHour | Mandatory,  String |  | GasHour that is affected by the first restriction,  E.g.: 2023.09.09-01GH |
| Hatalyba lepes vege | Valid To GasHour | String |  | GasHour that is affected by the last restriction. If it is empty, it means 'until withdrawn'.  E.g.: 2023.09.09-24GH |
| Meresipont (POD) | POD Code | Mandatory,  String | POD code | E.g.: 39N060005978000F |
| Halozatipont | IP Network Point Code | Mandatory,  String | IP Network Point Code | E.g.: VETELJCS17EN |
| Maximalis vetelezheto mennyiseg (kWh/nap) | Maximum Discarded Quantity | Number (18,0) |  | E.g.: 11000  If the field is empty, it means that it is not subject to restrictions. |

#### CSV Example

1. example: Publication of the first limitation measure



1. example: Publication of modification action



1. example: Correction of incorrect publication



1. example: Closing a limitation



### Message with response

For this message type, the response message is not interpreted.