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# HIS/RIS Data Migration to Enterprise Imaging

EMP 1.1.2 CSV Flat File Export Format

IITS Global Professional Services  
31 Oct 2023  
Version 1.0

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## ABOUT THIS DOCUMENT

### OBJECTIVE

The target audience of this document are customers and Agfa professional services resources seeking an overview of the HIS/RIS data needed for data migration to Agfa HealthCare Enterprise Imaging using the Enterprise Migration Platform 1.1.2.

The document aims to describe the supported layouts for the different types of data.

### DOCUMENT HISTORY

| Version | Author       | Date        | Remarks       |
|---------|--------------|-------------|---------------|
| 1.0     | Frank Coninx | 31 Oct 2023 | First version |

### ACRONYMS AND ABBREVIATIONS

| Name | Description                   |
|------|-------------------------------|
| HIS  | Hospital Information System   |
| RIS  | Radiology Information System  |
| EMP  | Enterprise Migration Platform |

## MIGRATION LAYOUTS

The following definitions are guidelines for the flat file fields that are necessary when migrating legacy HIS/RIS data to Agfa HealthCare Enterprise Imaging.

The following data file layouts are supported: doctor, patient, patient attachment, service request, requested procedure, report and attachment.

Each data file MUST contain a **header line** and at least one record.

Required fields MUST be present in the file header.

Optional fields MAY be omitted from the header line when no data is expected in there.

The columns in each file MUST be delimited. The | character (pipe) must be used as the field separator.

All files MUST use **UTF-8** character-encoding.

The following characters in the exported data MUST be escaped:

| (pipe character) needs to be represented as \|

A line feed needs to be represented as \.br\

The sections on the following pages describe the different layouts per data type.

Some explanation on the values used in the R/O column:

**R** Required

**R\*** Required when another related field has a value (see comments)

**O** Optional. If no data is to be migrated for this field, it can be omitted from the file

**O** The combination of fields highlighted in red (and grouped with brackets) needs to be unique.

**R\*** In case of multiple Physician and Patient ID's this means that the combination of any ID and Issuer needs to be unique across the complete dataset.

## DOCTORS

The DOCTOR-layout contains the details about the physicians.

| R/O       | Field name                                      | Comments                                                                                                                                                     | Max length |
|-----------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>R</b>  | PhysicianId                                     | This is the <b>main</b> physician ID which will be shown as EmployeeID in the Enterprise Imaging system.<br>The Issuer for this ID defaults to <b>SYSTEM</b> | 100        |
| <b>O</b>  | PhysicianId1, PhysicianId2, ...                 | Additional Physician ID's for this doctor<br>Columns can be added as needed (Nbr starts with 1)                                                              | 100        |
| <b>R*</b> | IssuerOfPhysicianId1, IssuerOfPhysicianId2, ... | Additional IssuerOfPhysicianId's<br>Columns can be added as needed (Nbr starts with 1)<br><b>SYSTEM</b> cannot be used for these additional issuers !!!      | 255        |
| <b>R</b>  | LastName                                        |                                                                                                                                                              | 64         |
| <b>R</b>  | FirstName                                       |                                                                                                                                                              | 64         |
| <b>O</b>  | Prefix                                          |                                                                                                                                                              | 64         |
| <b>O</b>  | Suffix                                          |                                                                                                                                                              | 64         |
| <b>O</b>  | MiddleName                                      |                                                                                                                                                              | 64         |
| <b>O</b>  | Sex                                             | Supported values: <b>M</b> – Male, <b>F</b> – Female, <b>U</b> – Unknown (Default if not provided)                                                           | 1          |
| <b>O</b>  | HomeAddressStreet                               |                                                                                                                                                              | 255        |
| <b>O</b>  | HomeAddressNumber                               |                                                                                                                                                              | 255        |
| <b>O</b>  | HomeAddressCity                                 |                                                                                                                                                              | 255        |
| <b>O</b>  | HomeAddressState                                |                                                                                                                                                              | 255        |
| <b>O</b>  | HomeAddressZipCode                              |                                                                                                                                                              | 20         |
| <b>O</b>  | HomeAddressCountry                              | Three-character country code from the ISO 3166-1 table.<br>If empty, <b>UNK</b> will be used.                                                                | 3          |
| <b>O</b>  | HomeAddressDescription                          |                                                                                                                                                              | 255        |
| <b>O</b>  | WorkAddressStreet                               |                                                                                                                                                              | 255        |
| <b>O</b>  | WorkAddressNumber                               |                                                                                                                                                              | 255        |
| <b>O</b>  | WorkAddressCity                                 |                                                                                                                                                              | 255        |
| <b>O</b>  | WorkAddressState                                |                                                                                                                                                              | 255        |
| <b>O</b>  | WorkAddressZipCode                              |                                                                                                                                                              | 20         |
| <b>O</b>  | WorkAddressCountry                              | Three-character country code from the ISO 3166-1 table.<br>If empty, <b>UNK</b> will be used.                                                                | 3          |
| <b>O</b>  | WorkAddressDescription                          |                                                                                                                                                              | 255        |
| <b>O</b>  | HomePhoneNumber                                 |                                                                                                                                                              | 100        |
| <b>O</b>  | WorkPhoneNumber                                 |                                                                                                                                                              | 100        |
| <b>O</b>  | HomeMobileNumber                                |                                                                                                                                                              | 100        |
| <b>O</b>  | WorkMobileNumber                                |                                                                                                                                                              | 100        |
| <b>O</b>  | HomeFaxNumber                                   |                                                                                                                                                              | 100        |
| <b>O</b>  | WorkFaxNumber                                   |                                                                                                                                                              | 100        |
| <b>O</b>  | Email                                           |                                                                                                                                                              | 100        |

**Physician Example 1 (minimal):**

PhysicianId|LastName|FirstName  
PHYSID001|Hibbert|Julius  
PHYSID002|Scully|Dana

**Physician Example 2:**

PhysicianId|PhysicianId1|IssuerOfPhysicianId1|LastName|FirstName|Sex|WorkAddressStreet|WorkAddressNumber|  
WorkAddressCity|WorkAddressState|WorkAddressCountry  
Hibbert01|PHYSID001|AGFA|Hibbert|Julius|M|Mainstreet|2310|Springfield|Oregon|USA  
Scully01|PHYSID002|AGFA|Scully|Dana|F|West 53 Road #35|3170|Annapolis|Maryland|USA

## PATIENTS

The PATIENT-layout contains the details about the patients.

| R/O       | Field name                                | Comments                                                                                               | Max length |
|-----------|-------------------------------------------|--------------------------------------------------------------------------------------------------------|------------|
| <b>R</b>  | PatientId                                 |                                                                                                        | 100        |
| <b>R</b>  | IssuerOfPatientId                         |                                                                                                        | 255        |
| <b>O</b>  | IssuerUID                                 | Only <b>ISO</b> OID value is supported !!                                                              | 64         |
| <b>O</b>  | PatientId1, PatientId2...                 | Additional Patient ID's for this patient<br>Columns can be added as needed (Nbr starts with 1)         | 100        |
| <b>R*</b> | IssuerOfPatientId1, IssuerOfPatientId2... | Additional IssuerOfPatient ID's for this patient<br>Columns can be added as needed (Nbr starts with 1) | 255        |
| <b>O</b>  | IssuerUID1, IssuerUID2...                 | Additional IssuerUID's for this patient<br>Columns can be added as needed (Nbr starts with 1)          | 64         |
| <b>R</b>  | LastName                                  |                                                                                                        | 64         |
| <b>R</b>  | FirstName                                 |                                                                                                        | 64         |
| <b>O</b>  | MiddleName                                |                                                                                                        | 64         |
| <b>O</b>  | MaidenName                                |                                                                                                        | 64         |
| <b>O</b>  | DateOfBirth                               | Format YYYYMMDD                                                                                        | 8          |
| <b>O</b>  | Sex                                       | Supported values: <b>M</b> – Male, <b>F</b> – Female,<br><b>U</b> – Unknown (Default if not provided)  | 1          |
| <b>O</b>  | Prefix                                    |                                                                                                        | 64         |
| <b>O</b>  | Suffix                                    |                                                                                                        | 64         |
| <b>O</b>  | BirthPlace                                |                                                                                                        | 64         |
| <b>O</b>  | Ssn                                       | Social Security Number                                                                                 | 100        |
| <b>O</b>  | Vip                                       | Supported values: <b>0</b> – No (Default if not provided), <b>1</b> – Yes                              | 1          |
| <b>O</b>  | DeceasedDateTime                          | Format: YYYYMMDD[HHMM[SS[SSSS]]][+-ZZZZ]                                                               | 25         |
| <b>O</b>  | Nationality                               | Three-character country code from the ISO 3166-1 table.<br>If empty, <b>UNK</b> will be used.          | 3          |
| <b>O</b>  | HomeAddressStreet                         |                                                                                                        | 255        |
| <b>O</b>  | HomeAddressNumber                         |                                                                                                        | 255        |
| <b>O</b>  | HomeAddressCity                           |                                                                                                        | 255        |
| <b>O</b>  | HomeAddressState                          |                                                                                                        | 255        |
| <b>O</b>  | HomeAddressZipCode                        |                                                                                                        | 20         |
| <b>O</b>  | HomeAddressCountry                        | Three-character country code from the ISO 3166-1 table.<br>If empty, <b>UNK</b> will be used.          | 3          |
| <b>O</b>  | HomeAddressDescription                    |                                                                                                        | 255        |
| <b>O</b>  | WorkAddressStreet                         |                                                                                                        | 255        |
| <b>O</b>  | WorkAddressNumber                         |                                                                                                        | 255        |
| <b>O</b>  | WorkAddressCity                           |                                                                                                        | 255        |
| <b>O</b>  | WorkAddressState                          |                                                                                                        | 255        |
| <b>O</b>  | WorkAddressZipCode                        |                                                                                                        | 20         |
| <b>O</b>  | WorkAddressCountry                        | Three-character country code from the ISO 3166-1 table.<br>If empty, <b>UNK</b> will be used.          | 3          |
| <b>O</b>  | WorkAddressDescription                    |                                                                                                        | 255        |
| <b>O</b>  | HomePhoneNumber                           |                                                                                                        | 100        |
| <b>O</b>  | WorkPhoneNumber                           |                                                                                                        | 100        |
| <b>O</b>  | HomeMobileNumber                          |                                                                                                        | 100        |
| <b>O</b>  | WorkMobileNumber                          |                                                                                                        | 100        |
| <b>O</b>  | HomeFaxNumber                             |                                                                                                        | 100        |
| <b>O</b>  | WorkFaxNumber                             |                                                                                                        | 100        |

|   |           |     |
|---|-----------|-----|
| O | HomeEmail | 100 |
| O | WorkEmail | 100 |

**Patient Example 1 (minimal):**

PatientId|IssuerOfPatientId|LastName|FirstName  
AG79021740|AGFA|Warner|Stuart  
AG78042073|AGFA|Lopes|Robert  
AG43121137|AGFA|Burt|Howard  
AG83101929|AGFA|Fritz|Lorene

**Patient Example 2 (multiple patient ID's):**

PatientId|IssuerOfPatientId|PatientId1|IssuerOfPatientId1|LastName|FirstName|Sex|DateOfBirth  
AG79021740|AGFA|ID19790217001|SITE2|Warner|Stuart|M|19790217  
AG78042073|AGFA|ID19780420001|SITE2|Lopes|Robert|M|19780420  
ID19431211001|SITE3|AG43121137|AGFA|Burt|Howard|M|19431211  
ID19831019001|SITE3||Fritz|Lorene|F|19831019



## PATIENT ATTACHMENT

The PATIENT\_ATTACHMENT-layout contains the details about patient level attachments.

The linking with the patient is done by means of the **PatientId / IssuerOfPatientId** combination.

| R/O | Field name        | Comments                                                                                                                                                                                                                                                                                                                         | Max length |
|-----|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| R   | PatientId         | Must have a matching value in the PATIENT exports.<br>Can link to any PatientID/Issuer combination for a patient.                                                                                                                                                                                                                | 100        |
| R   | IssuerOfPatientId |                                                                                                                                                                                                                                                                                                                                  | 255        |
| R   | Type              | Supported values:<br><b>TX</b> – Text attachments, the textual content is contained in the Content field.                                                                                                                                                                                                                        | 2          |
| R   | Code              | The code must correspond to an attachment code defined in the Enterprise Imaging target system as <b>Patient Level Attachment</b> .<br><br>EI has one default patient attachment code pre-defined:<br><b>PATIENT_COMMENT</b><br><br>If other attachment codes are required, these can be configured through the EI Admin Desktop | 20         |
| R   | Content           | Linefeed is supported as from EI 8.1.1 SP3                                                                                                                                                                                                                                                                                       | Unlimited  |

### Patient Attachment Example:

```
PatientId|IssuerOfPatientId|Type|Code|Content
AG79021740|AGFA|TX|ALARM|Allergic to Iodine
AG79021740|AGFA|TX|PROTOCOL|Preparation: \.br\Starve 4 hours \.br\No oral prep unless stated
AG79021740|AGFA|TX|PATIENTWEIGHT|82 kg
```

## SERVICE REQUEST

The SERVICE\_REQUEST-layout contains the details about the order/service request.

The linking with the patient is done by means of the **PatientId / IssuerOfPatientId** combination.

| R/O                                                                                                                                                                  | Field name                     | Comments                                                                                                                                                                                       | Max length |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| R                                                                                                                                                                    | PatientId                      | Must have a matching value in the PATIENT exports<br>Can link to any PatientID/Issuer combination for a patient.                                                                               | 100        |
| R                                                                                                                                                                    | IssuerOfPatientId              |                                                                                                                                                                                                | 255        |
| O                                                                                                                                                                    | PlacerOrderNumber              |                                                                                                                                                                                                | 64         |
| R*                                                                                                                                                                   | IssuerOfPlacerOrderNumber      | Required when PlacerOrderNumber contains a value.                                                                                                                                              | 255        |
| R                                                                                                                                                                    | FillerOrderNumber              |                                                                                                                                                                                                | 64         |
| R                                                                                                                                                                    | IssuerOfFillerOrderNumber      |                                                                                                                                                                                                | 255        |
| O                                                                                                                                                                    | RequestingPhysicianId          | Must match with the main PhysicianId value in the DOCTOR exports.                                                                                                                              | 100        |
| O                                                                                                                                                                    | RequestingDepartmentId         | ⚠                                                                                                                                                                                              | 100        |
| R*                                                                                                                                                                   | IssuerOfRequestingDepartmentId | Required when RequestingDepartmentId contains a value.<br>MUST be value <b>SYSTEM</b><br>At this moment Enterprise Imaging does not support multiple Assigning Authorities for Department ID's | 255        |
| R*                                                                                                                                                                   | RequestingDepartmentName       | Required when RequestingDepartmentId contains a value.                                                                                                                                         | 64         |
| O                                                                                                                                                                    | HospitalId                     | ⚠                                                                                                                                                                                              | 100        |
| R*                                                                                                                                                                   | IssuerOfHospitalId             | Required when IssuerOfHospitalId contains a value.<br>MUST be value <b>SYSTEM</b><br>At this moment Enterprise Imaging does not support multiple Assigning Authorities for Hospital ID's       | 255        |
| R*                                                                                                                                                                   | HospitalName                   | Required when HospitalId contains a value.                                                                                                                                                     | 64         |
| R                                                                                                                                                                    | OrderPriority                  | The value must correspond to an order priority code defined in the Enterprise Imaging target system                                                                                            | 64         |
| Enterprise Imaging pre-defined values are: <b>A, C, P, R, S, T</b>                                                                                                   |                                |                                                                                                                                                                                                |            |
| Other custom Order Priority values are also supported but require Agfa Healthcare personnel to configure this in the system.                                         |                                |                                                                                                                                                                                                |            |
| ⚠ It is recommended to first align with the Agfa Healthcare Integration Engineer configuring the HL7 interfaces for the priority codes to use for the data extracts. |                                |                                                                                                                                                                                                |            |
| R                                                                                                                                                                    | OrderCreationDateTime          | Format: YYYYMMDD[HHMM[SS[SSSS]]][+-ZZZZ]                                                                                                                                                       | 25         |
| O                                                                                                                                                                    | ClinicalInfo                   | Linefeed is supported as from EI 8.1.1 SP3                                                                                                                                                     | Unlimited  |



### RequestingDepartmentId and HospitalId

Enterprise Imaging will auto-create departments and hospitals based on information given in this extract if the corresponding department code does not exist yet in the system prior to migration.

**Service Request Example 1 (minimal):**

```
PatientId|IssuerOfPatientId|FillerOrderNumber|IssuerOfFillerOrderNumber|OrderPriority|OrderCreationDateTime
AG79021740|AGFA|FO201703200753|AGFA|R|201703200753
AG78042073|AGFA|FO201612050810|AGFA|R|201612050810
AG43121137|AGFA|FO201607270839|AGFA|R|201607270839
AG43121137|AGFA|FO201611152043|AGFA|R|201611152043
AG83101929|AGFA|FO201607141817|AGFA|R|201607141817
```

**Service Request Example 2 (orders with different primary PID):**

```
PatientId|IssuerOfPatientId|PlacerOrderNumber|IssuerOfPlacerOrderNumber|FillerOrderNumber|IssuerOfFillerOrderNumber|OrderPriority|OrderCreationDateTime
AG43121137|AGFA|PO201607270839|AGFA|FO201607270839|AGFA|R|201607270839
AG43121137|AGFA|PO201611152043|AGFA|FO201611152043|AGFA|R|201611152043
ID19431211001|SITE2|PO201703220816|AGFA|FO201703220816|AGFA|R|201703220816
ID19431211001|SITE2|PO201604121950|AGFA|FO201604121950|AGFA|R|201604121950
```

## REQUESTED PROCEDURE

The REQUESTED\_PROCEDURE-layout contains the details about the study/requested procedure and links to the service request (order) where it belongs to.

The linking with the order is done by means of the **FillerOrderNumber / IssuerOfFillerOrderNumber** combination.

| R/O       | Field name                     | Comments                                                                                                                                              | Max length |
|-----------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>R</b>  | FillerOrderNumber              | Must have a value in the SERVICE REQUEST exports                                                                                                      | 64         |
| <b>R</b>  | IssuerOfFillerOrderNumber      |                                                                                                                                                       | 255        |
| <b>R</b>  | RequestedProcedureId           |                                                                                                                                                       | 64         |
| <b>R</b>  | ProcedureCode                  |                                                                      | 64         |
| <b>O</b>  | ProcedureDescription           | If value is omitted, ProcedureCode will be used as description                                                                                        | 255        |
| <b>O</b>  | Modality                       |                                                                                                                                                       | 64         |
| <b>R</b>  | AccessionNumber                | When not available, use RequestedProcedureId value                                                                                                    | 16         |
| <b>R</b>  | ScheduledProcedureStepId       | When not available, use RequestedProcedureId value                                                                                                    | 64         |
| <b>R*</b> | StudyInstanceUid               | This field becomes mandatory when DICOM images need to be matched to this study in Enterprise Imaging<br>Needs to be unique when values are provided. | 64         |
| <b>O</b>  | ReasonForStudy                 | Linefeed is supported as from EI 8.1.1 SP3                                                                                                            | Unlimited  |
| <b>R</b>  | StudyStatus                    | Supported values:<br><b>CM</b> - Completed<br><b>CA</b> - Cancelled<br><b>SC</b> - Scheduled                                                          | 2          |
| <b>O</b>  | PerformingPhysicianId          | Must match with the main PhysicianId value in the DOCTOR exports.                                                                                     | 100        |
| <b>O</b>  | PerformingDepartmentId         |                                                                    | 100        |
| <b>R*</b> | IssuerOfPerformingDepartmentId | Required when PerformingDepartmentId contains a value.                                                                                                | 255        |
| <b>R*</b> | PerformingDepartmentName       | Required when PerformingDepartmentId contains a value.                                                                                                | 64         |
| <b>O</b>  | ExamRoom                       |                                                                                                                                                       | 255        |
| <b>R</b>  | ScheduledStudyDateTime         | Format: YYYYMMDD[HHMM[SS[SSSS]]][+-ZZZZ]                                                                                                              | 25         |



### ProcedureCode

Enterprise Imaging will auto-create procedure codes and descriptions based on information given in this extract if the corresponding procedure code does not exist yet in the system prior to migration.

### PerformingDepartmentId

Enterprise Imaging will auto-create departments based on information given in this extract if the corresponding department code does not exist yet in the system prior to migration.

**Requested Procedure Example 1 (minimal):**

```
FillerOrderNumber|IssuerOfFillerOrderNumber|RequestedProcedureId|ProcedureCode|AccessionNumber|
ScheduledProcedureStepId|StudyStatus|ScheduledStudyDateTime
FO201703200753|AGFA|RP201703200753|XR_HEAD|AC201703200753|SP201703200753|CM|201703201753
FO201612050810|AGFA|RP201612050810|XR_CHEST|AC201612050810|SP201612050810|CM|201612050910
FO201607270839|AGFA|RP201607270839|XR_FOOT|AC201607270839|SP201607270839|CM|201607270839
FO201611152043|AGFA|RP201611152043|XR_CHEST|AC201611152043|SP201611152043|CM|201611152043
FO201607141817|AGFA|RP201607141817|XR_FOOT|AC201607141817|SP201607141817|CM|201607141817
```

**Requested Procedure Example 2:**

```
FillerOrderNumber|IssuerOfFillerOrderNumber| RequestedProcedureId|ProcedureCode|AccessionNumber|
ScheduledProcedureStepId|StudyStatus| ScheduledStudyDateTime|Modality|StudyInstanceUid|PerformingDepartmentI
d|IssuerOfPerformingDepartmentId|PerformingDepartmentName
FO201703200753|AGFA|RP201703200753|XR_HEAD|AC201703200753|SC201703200753|CM|201703201753|CR|2.25.2153806228
60434990322577895785491809500|RX|SYSTEM|RADIOLOGY
FO201612050810|AGFA|RP201612050810|XR_CHEST|AC201612050810|SC201612050810|CM|201612050910|CR|2.25.895316843
02899024555298586981886420005|RX|SYSTEM|RADIOLOGY
FO201607270839|AGFA|RP201607270839|XR_FOOT|AC201607270839|SC201607270839|CM|201607270839|CR|2.25.1394729145
34499357748965343027253799396|RX|SYSTEM|RADIOLOGY
FO201611152043|AGFA|RP201611152043|XR_CHEST|AC201611152043|SC201611152043|CM|201611152043|CR|2.25.288654264
908372256134394052723828839748|RX|SYSTEM|RADIOLOGY
FO201703220816|AGFA|RP201703220816|XR_HEAD|AC201703220816|SC201703220816|CM|201703220816|CR|2.25.8745531059
9186341417319828264945564399|RX|SYSTEM|RADIOLOGY
FO201604121950|AGFA|RP201604121950|XR_CHEST|AC201604121950|SC201604121950|CM|201604121950|CR|2.25.631297120
97613571937953376228598351882|RX|SYSTEM|RADIOLOGY
FO201607141817|AGFA|RP201607141817|XR_FOOT|AC201607141817|SC201607141817|CM|201607141817|CR|2.25.1327022450
58760241877869418534602244695|RX|SYSTEM|RADIOLOGY
```

## REPORT

The REPORT-layout contains the details about the report and links to the service request (order) and studies where it belongs to.

The linking with the order is done by means of the **FillerOrderNumber / IssuerOfFillerOrderNumber / RequestedProcedureID** combination.

In case a report belongs to multiple procedures, multiple report records must be present, i.e. one report record for each procedure where the report belongs to.

| R/O       | Field name                | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                           | Max length |
|-----------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>R</b>  | FillerOrderNumber         | Must have a value in the REQUESTED PROCEDURE exports                                                                                                                                                                                                                                                                                                                                                                                               | 64         |
| <b>R</b>  | IssuerOfFillerOrderNumber |                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 255        |
| <b>R</b>  | RequestedProcedureId      | MUST have a value in the REQUESTED PROCEDURE exports                                                                                                                                                                                                                                                                                                                                                                                               | 64         |
| <b>R</b>  | CreatedDateTime           | Format: YYYYMMDD[HHMM[SS[SSSS]]][+ZZZZ]                                                                                                                                                                                                                                                                                                                                                                                                            | 25         |
| <b>R*</b> | ValidatedDateTime         | Format: YYYYMMDD[HHMM[SS[SSSS]]][+ZZZZ]<br>Required when Report Status = <b>F</b> (Final).                                                                                                                                                                                                                                                                                                                                                         | 25         |
| <b>R</b>  | ValueType                 | Supported values:<br><b>FT</b> – Plain text. The body field contains the actual flat text of the report<br><br><b>RP</b> – Reference pointer. The body field contains a URL to a PDF file containing the actual report.<br><br><b>RT</b> – Reference pointer to plain text files. The body field contains a URL to a text file containing the report text.<br><br><b>ET</b> – Encoded text. The body field contains the base64 encoded PDF report. | 2          |
| <b>R</b>  | Type                      | Must be <b>GDT</b><br>Only full reports can be migrated.<br>If a report consists of a main report and several addenda, then the texts must be merged together into 1 report.                                                                                                                                                                                                                                                                       | 3          |
| <b>R</b>  | Body                      | In case of ValueType <b>FT</b> : the plain text of the report (and addenda) content<br><br>In case of Report Format <b>RP</b> or <b>RT</b> :<br>Complete URL path + filename.<br>\\ does <b>not</b> need to be escaped                                                                                                                                                                                                                             | Unlimited  |
| <b>R</b>  | Status                    | Supported values:<br><b>P</b> - Preliminary<br><b>F</b> – Final                                                                                                                                                                                                                                                                                                                                                                                    | 1          |
| <b>O</b>  | TranscriptionistId        | Must match with the main PhysicianId value in the DOCTOR exports.                                                                                                                                                                                                                                                                                                                                                                                  | 100        |
| <b>R</b>  | AuthorId                  | Must match with the main PhysicianId value in the DOCTOR exports.                                                                                                                                                                                                                                                                                                                                                                                  | 100        |
| <b>R*</b> | ValidatorId               | Required when Report Status = <b>F</b> (Final).<br>Must match with the main PhysicianId value in the DOCTOR exports.                                                                                                                                                                                                                                                                                                                               | 100        |

**Report Example 1 (minimal):**

```
FillerOrderNumber|IssuerOfFillerOrderNumber|RequestedProcedureID|CreatedDateTime|ValidatedDateTime|ValueTyp
e|Type|Body|Status|AuthorId|ValidatorId
FO201703200753|AGFA|RP201703200753|201703210912|201703210912|FT|GDT|This_is_a_test_report|F|PHYSID001|
PHYSID001
FO201612050810|AGFA|RP201612050810|201612051115|201612051115|RT|GDT|\\server\share\report_body.txt|F|
PHYSID001|PHYSID002
FO201607270839|AGFA|RP201607270839|201607270839|201607270839|RP|GDT|\\server\share\report.pdf|F|PHYSID002|
PHYSID002
FO201607141817|AGFA|RP201607141817|201607141817|201607141817|ET|GDT|VGhpcyBpcyBhIHRlc3QgcmVwb3J0Lg0KVHpcyB
pcyBhIHRlc3QgcmVwb3J0Lg0KVHpcyBpcyBhIHRlc3QgcmVwb3J0Lg0KVHpcyBpcyBhIHRlc3QgcmVwb3J0Lg==|F|PHYSID002|
PHYSID001
```

**Report Example 2 (same report for multiple studies):**

```
FillerOrderNumber|IssuerOfFillerOrderNumber|RequestedProcedureID|CreatedDateTime|ValidatedDateTime|ValueTyp
e|Type|Body|Status|AuthorId|ValidatorId
FO201612050810|AGFA|RP201612050810|201607270839|201607270839|RP|GDT|\\server\share\report.pdf|F|PHYSID64022
150|PHYSID64022150
FO201612050810|AGFA|RP201607270839|201607270839|201607270839|RP|GDT|\\server\share\report.pdf|F|PHYSID64022
150|PHYSID64022150
FO201612050810|AGFA|RP201611152043|201607270839|201607270839|RP|GDT|\\server\share\report.pdf|F|PHYSID64022
150|PHYSID64022150
```

## ATTACHMENT

The ATTACHMENT-layout contains the details about order level and study level attachments.

The linking with the service request (order) and study is done by means of the **FillerOrderNumber / IssuerOfFillerOrderNumber / RequestedProcedureID** combination.

If an order (service request) contains multiple studies and you want to define an **order** level attachment, it is sufficient to only provide 1 record with the FillerOrderNumber and the RequestedProcedureId of the first study.

| R/O | Field name                | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Max length |
|-----|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| R   | FillerOrderNumber         | Must have a value in the REQUESTED PROCEDURE exports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 64         |
| R   | IssuerOfFillerOrderNumber |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 255        |
| R*  | RequestedProcedureId      | Must have a value in the REQUESTED PROCEDURE exports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 64         |
| R   | Type                      | Supported values:<br><b>TX</b> – Text attachments, the textual content is contained in the Content field.<br><br><b>RP</b> – Reference Pointer is used in the Content field to a PDF, PNG, JPEG, GIF, BMP, TIF or TIFF file.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2          |
| R   | Code                      | The code must correspond to an attachment code defined in the Enterprise Imaging target system as an <b>Order</b> or <b>Study Level Attachment</b> .<br><br>EI pre-defined <b>Order Level Attachment</b> codes are:<br>ECG PDF_IMAGE<br>SCANNED_REQUEST PDF_IMAGE<br><br>EI pre-defined <b>Study Level Attachment</b> codes are:<br>CONFERENCECOMMENT TEXT<br>ORDERREVIEWCOMMENT TEXT<br>PROCEDURECOMMENTPRIV TEXT<br>TECHNOLOGISTSCOMMENT TEXT<br>TOMTEC_IMAGECOM PDF_IMAGE<br><br> Following codes are pre-defined built-in EI codes which <b>cannot</b> be used as an attachment code:<br><b>CLINICALINFO</b> See SERVICE REQUEST<br><b>REASONFORSTUDY</b> See REQUESTED PROCEDURE<br><b>PROCEDURECOMMENT</b> Currently not migratable<br><br>If other attachment codes are required, these can be configured through the EI Admin Desktop | 20         |
| R   | Content                   | Type <b>TX</b> : complete text must fit in here.<br>Linefeed is <b>not</b> supported for this field.<br><br>Type <b>RP</b> : complete path + filename of the PDF, PNG, JPEG, GIF, BMP, TIF or TIFF file.<br>\\ does <b>not</b> need to be escaped                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unlimited  |



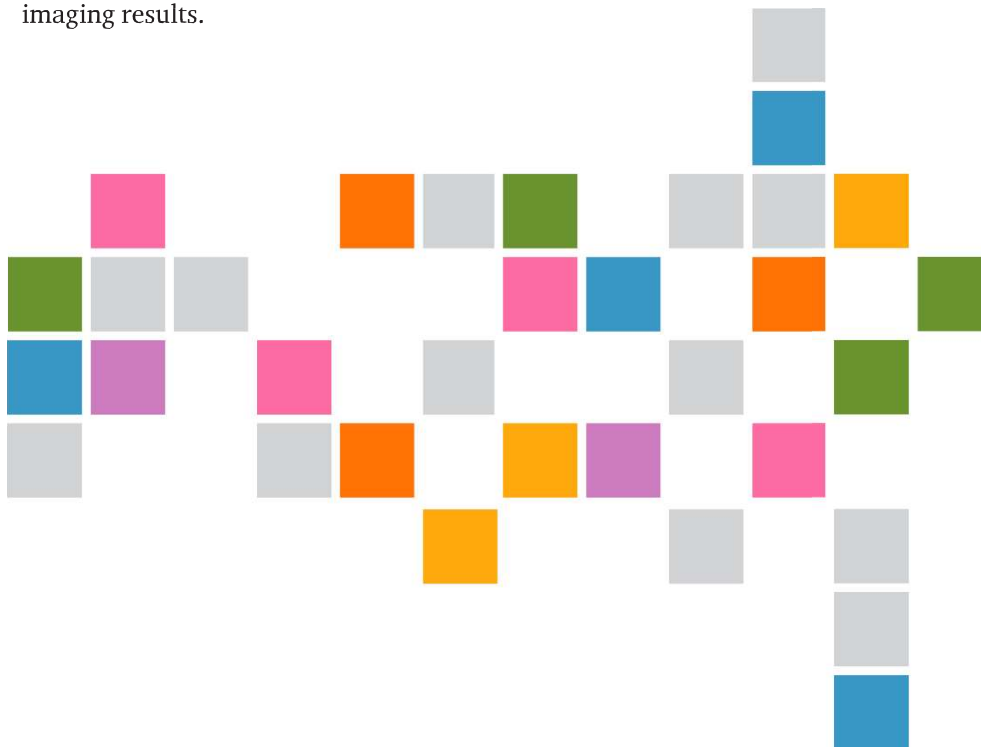
**Attachment Example 1:**

```
FillerOrderNumber|IssuerOfFillerOrderNumber|RequestedProcedureID|Type|Code|Content
FO201703200753|AGFA|RP201703200753|RP|SCANNED_REQUEST|\\server\share\att1.png
FO201703200753|AGFA|RP201703200753|TX|TECHNOLOGISTSCOMMENT|Patient moved on the table
FO201612050810|AGFA|RP201612050810|RP|SCANNED_REQUEST|\\server\share\att11.png
FO201612050810|AGFA|RP201612050810|TX|TECHNOLOGISTSCOMMENT|Patient was frightened
FO201607270839|AGFA|RP201607270839|RP|SCANNED_REQUEST|\\server\share\att13.png
FO201607270839|AGFA|RP201607270839|TX|TECHNOLOGISTSCOMMENT|Wheelchair needed
FO201611152043|AGFA|RP201611152043|RP|SCANNED_REQUEST|\\server\share\att15.png
FO201611152043|AGFA|RP201611152043|TX|TECHNOLOGISTSCOMMENT|Study Comment
```

**Attachment Example 2 (grouped order level attachment):**

```
FillerOrderNumber|IssuerOfFillerOrderNumber|RequestedProcedureID|Type|Code|Content
FO201612050810|AGFA|RP201612050810|RP|SCANNED_REQUEST|\\server\share\scanned_request.png
FO201612050810|AGFA|RP201612050810|TX|TECHNOLOGISTSCOMMENT|Comment for study 1
FO201612050810|AGFA|RP201607270839|TX|TECHNOLOGISTSCOMMENT|Comment for study 2
FO201612050810|AGFA|RP201611152043|TX|TECHNOLOGISTSCOMMENT|Comment for study 3
```

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