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Fresenius Medical Care

HIS-SAP Interface Specification

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| --- | --- | --- | --- | --- |
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# Introduction

## Purpose

This document describes business processes between HIS and SAP, and data exchange specification.

## Scope

This document is intended for developers, testers and system analysts on HIS and SAP.

## Notice

The document is the development basis for HIS-SAP interface project, Any subsequent changes must be versioned for this document.

## Terms, Definitions, Abbreviations

|  |  |  |
| --- | --- | --- |
| Term / Abbreviation | Unabbreviated Name | Description |
| HIS | Hospital information system |  |
|  |  |  |

## Reference Documents

|  |  |  |  |
| --- | --- | --- | --- |
| Document ID | Document Name | Author | Description |
|  | inSITE\_FS-I\_25-021\_CN\_V1\_HIS\_ERP\_interfaces\_1106\_EL.docx |  |  |
|  | inSITE\_FS-I\_10-044\_CN\_V1\_Hospital\_Information\_System\_interface\_1031\_EL.docx |  |  |
|  | inSITE\_FS-I\_95-044\_CN\_A1\_Vendor Master interface with HIS Idoc Outbound Interface.xlsx |  |  |
|  | inSITE\_FS-I\_95-044\_CN\_V1\_HIS Vendor Master Distribution.docx |  |  |
|  | inSITE\_FS-E\_95-043\_CN\_V1\_HIS Material Master Distribution.docx |  |  |
|  | inSITE\_FS-I\_95-043\_CN\_A1\_Material Master interface with HIS Idoc Outbound Interface.xlsx |  |  |
|  | SC meeting slide-T2R Interface.pptx |  |  |

# General Description

## Interface and Message Format

SAP and HIS provide Web Service interface with XML data.



XML data framework:

<XML>

<Head>

<InterfaceCode>H-S-XXX</InterfaceCode>

<ReqTime>XXXX-MM-DD hh:mi:ss</ReqTime>

</Head>

<Body>

{ message content here … }

</Body>

</XML>

## Common conventions

Common conventions for all interface.

|  |  |
| --- | --- |
| Item | Description |
| Encoding | UTF-8 |
| Data type - Date | Send as String  Format:  YYYY-MM-DD  YYYY-MM-DD hh:mi:ss (24-hour format) |
| Data type - Boolean | 1. No 2. Yes |
| Boolean Text | Y – Yes  N – No |

## Log

HIS log system will save all received and sended xml message to log, and provide log query function. User in HIS can check the log when differences between SAP and HIS.

# Interface Description

## Vendor Master (H-S-001)

### Functional Description

Sender: SAP

Receiver: HIS

Frequency: Daily & Manual Trigger

1. SAP summarizing manufacture/supplier data daily, send to HIS.
2. Use vendor unique identity number in SAP in all interface.
3. Vendor Type (Manufacturer, Supplier, or Both) need to be distinguished by field name “VendorType”.
4. The interface transmission will happen when the vnedor data in SAP changed.
5. SAP should provide manual trigger for emergency modify of master data.

### Data Flow Diagram



### Fields Description

#### SAP send to HIS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| VendorNo | String(14) | Y |  | Unique identification of vendor in SAP |
| VendorType | String(2) | Y |  | 1. Manufacture生产厂家 2. Supplier供货商 3. Both |
| ServiceScope | String(3) | Y |  | 1. Drug药品 2. Material物资 3. Both |
| VendorName | String(200) | Y |  | Vendor name |
| TaxNo | String(50) | Y |  | Tax code  税号 |
| LicenseNo | String(50) | Y of material |  | Registration License number |
| LicenseName | String(200) | Y of material |  | Registration License name  Sample：  中华人民共和国医疗器械注册证 |
| LicenseEffDate | String(10) | Y of material |  | License Effective Date |
| LicenseExpDate | String(10) | Y of material |  | License Expire Date |
| GSPCerNo | String(50) | Y of drug |  | GSP certification number |
| GSPCerEffDate | String(10) | Y of drug |  | GSP certification Effective Date |
| GSPCerExpDate | String(10) | Y of drug |  | GSP certification Expire Date |
| StopFlag | String(1) | Y |  | 1. out of service 停用 2. normal 正常   Default 1 |

#### HIS Return

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) | Y when error |  | Error code |
| ErrMsg | String(100) | Y when error |  | Error message |

## Material Master (H-S-002)

### Functional Description

Sender: SAP

Receiver: HIS

Frequency: Daily & Manual Trigger

1. SAP summarize material master data daily send to HIS.
2. Use material unique identity number in SAP in all interface.
3. The initial version of master data will be migrated from SAP 11 to HIS system.
4. The data will be modify/mapping based on unique identification code after HIS synchronized data from SAP. HIS will use the same SAP martial number as unique identification.
5. The synchronizing field which from SAP to HIS can not be modified.
6. The interface transmission will happen when the vnedor data in SAP changed.
7. SAP should provide manual trigger for emergency modify of master data.

### Data Flow Diagram



### Fields Description

#### SAP send to HIS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| MaterialNo | String(14) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| ProductName | String(200) | Y |  | Product Name  商品名 |
| MfrNo | String(14) | Y |  | Manufacturer number  Vendor number from vendor master  生产厂商ID，来自于供应商主数据 |
| MfrName | String(200) | Y |  | Manufacturer Name  生产厂商名称 |
| PkgUnit | String(30) | Y |  | Packing Unit 包装单位  See $5.1 & $5.2 Common Unit Mapping  Sample:  Box |
| PkgQty | Integer | Y |  | Packing Quantity 包装数量  Sample:  7 |
| MinUnit | String(30) | Y |  | Min Unit 最小单位  See $5.1 & $5.2 Common Unit Mapping  Sample:  Pieces |
| LicenseNo | String(50) | N |  | License number from vendor master |
| StopFlag | String(1) | Y |  | 1. out of service 停用 2. normal 正常   Default 1 |

#### HIS Return

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) | N |  | Error code |
| ErrMsg | String(100) | N |  | Error message |

## Purchase Requisition (H-S-003)

### Functional Description

Sender: HIS

Receiver: SAP

Frequency: Daily

1. HIS summarize approved PR daily, send to SAP.
2. SAP generate PR and send back PR data to HIS. With item row number in SAP.

### Data Flow Diagram



### Fields Description

#### HIS send to SAP

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| HosNo | String(14) | Y | Plant | Clinic code in SAP |
| PRNo | String(8) | Y |  | Purchase Requisition code in HIS |
| PRDate | String(19) | Y |  | Purchase Requisition create date |
| GRDate | String(19) | Y |  | Latest goods receive date |
| ItemNo | String(2) | Y |  | Item number in HIS |
| MaterialNo | String(14) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| Unit | String(30) | Y |  | Package unit |
| Qty | Integer | Y |  | Purchase quantity |

#### SAP Return

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) | N |  | Error code |
| ErrMsg | String(100) | N |  | Error message |

## Purchase Order / Outbound delivery (H-S-004)

### Functional Description

Sender: SAP

Receiver: HIS

Frequency: Daily

1. SAP summarize all PO and Outbound Delivery daily, send to HIS.
2. HIS need to receive the data mapping relation of SAP PR and PO.

### Data Flow Diagram



### Fields Description

#### SAP send to HIS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| HosNo | String(14) | Y | Plant | Clinic code in SAP |
| PONo | String(14) | Y in PO |  | Purchase order number in SAP |
| POItemNo | String(2) | Y in PO |  | Item row number in SAP |
| PODate | String(19) | Y in PO |  | Purchase order create date |
| ODNo | String(14) | Y in OD |  | Outbound Delivery Number in SAP |
| ODItemNo | String(2) | Y in OD |  | Outbound Delivery Item row number in SAP |
| ODDate | String(19) | Y in OD |  | Outbound Delivery create date |
| SupplierNo | String(14) | Y |  | Vendor number in vendor mater |
| SupplierName | String(200) | Y |  | Vendor name in vendor mater |
| GRDate | String(10) | Y |  | Planed Goods receive date.t |
| PRNo | String(14) | Y |  | Purchase Requisition code in SAP |
| HISPRNo | String(8) | Y |  | Purchase Requisition code in HIS |
| HISItemNo | String(2) | Y |  | line item number in HIS |
| MaterialNo | String(14) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| Unit | String(30) | Y |  | Package unit |
| Qty | Integer | Y |  | Purchase quantity |
| Price | Number(17,4) | Y |  | Purchase price |
| TotalAmt | Number(17,2) | Y |  | Purchase item total amount |
| BatchNo | String(2) | Y in OD |  | SAP Batch code (only for Outbound Deliveries, only FME products) |
| ProDate | String(10) | Y in OD |  | Production Date |
| ExpDate | String(10) | Y in OD |  | Expire Date (only for Outbound Deliveries, only FME products) |
| ReturnFlag | String(1) | N |  | Return flag on PO item level |

#### HIS Return

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) | N |  | Error code |
| ErrMsg | String(100) | N |  | Error message |

## Goods Receive (H-S-005)

### Functional Description

Sender: HIS

Receiver: SAP

Frequency: Daily

1. HIS summarize all GR data daily, send to SAP.
2. HIS can supports partially delivery, The PO will be closed after all to goods has been receipted.

### Data Flow Diagram



### Fields Description

#### HIS send to SAP

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| HosNo | String(14) | Y | Plant | Clinic code in SAP |
| PONo | String(14) | Y in PO |  | Purchase order number in SAP |
| POItemNo | String(2) | Y in PO |  | Item row number in SAP |
| ODNo | String(14) | Y in OD |  | Outbound Delivery Number in SAP |
| ODItemNo | String(2) | Y in OD |  | Item row number in SAP |
| GRDate | String(19) | Y | Posting Date | Goods receive date |
| DocDate | String(19) | Y | Document Date | Goods receive date |
| UserId | String(14) | Y | Processing user | Processing user id in HIS |
| SupplierNo | String(14) | Y |  | Supplier number in vendor mater |
| SupplierName | String(200) | Y |  | Supplier name in vendor mater |
| MaterialNo | String(14) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| PkgBatchNo | String(20) | Y |  | Batch number on package  批号 |
| BatchNo | Integer | Y |  | Batch number in HIS  批次 |
| Unit | String(30) | Y |  | Package unit |
| Qty | Integer | Y |  | Purchase quantity |
| ProDate | String(10) | Y |  | Production date |
| ExpDate | String(10) | Y |  | Expiry Date |
| Comment | String(200) | N | Header text | Header text |

#### SAP Return

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) | N |  | Error code |
| ErrMsg | String(100) | N |  | Error message |

## Inventory Movement (H-S-006)

### Functional Description

Sender: HIS

Receiver: SAP

Frequency: Daily

1. HIS summarize inventory movement data daily, send to HIS.
2. Inventory movement type：
   1. Consumption
      * Consumption of dialyzer will be counted after treat.
      * Consumption of drugs will be counted when patient get the drugs from pharmacy.



* 1. Scrapping



* 1. Inventory counting profit
  2. Inventory counting loss



### Data Flow Diagram



### Fields Description

#### HIS send to SAP

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| HosNo | String(14) | Y | Plant | Clinic code in SAP |
| TransDate | String(19) | Y |  | Date of goods movement |
| UserId | String(14) | Y | Processing user | Processing user id in HIS |
| MaterialNo | String(14) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| MovType | String(1) | Y |  | 291 - for Consumption 消耗  9NC - for scrapping 报损  ? - Profit (inventory counting) 盘盈  ? - Loss (inventory counting) 盘亏 |
| PkgBatchNo | String(20) | Y |  | Batch number on package  批号 |
| BatchNo | Integer | Y |  | Batch number in HIS  批次 |
| Unit | String(30) | Y |  | Package unit |
| Qty | Integer | Y |  | Goods movement quantity |
| Comment | String(200) | Y when scrap |  | Movement reason (only for scrapping) |

#### SAP Return

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) | N |  | Error code |
| ErrMsg | String(100) | N |  | Error message |

## Accounting (H-S-007)

### Functional Description

Sender: HIS

Receiver: SAP

Frequency: Daily

1. HIS generate finance voucher daily, send to SAP.
2. HIS provide account number mapping function, Accountant can maintain mapping relation by this function.

### Data Flow Diagram



Payment - First diagnosis



Payment – daily



Return drug / Return treatment item / Refund



### Fields Description

#### HIS send to SAP

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| HosNo | String(14) | Y |  | Clinic code in SAP |
| BookDate | String(19) | Y |  | Date of bookkeeping |
| FiscalYear | String(4) | Y | GJAHR | Fiscal Year |
| VoucherType | String(2) | Y | BLART | 1. cash 2. medical insurance |
| UserName | String(50) | Y | USNAM | User name in HIS |
| TypeTxt | String(50) | Y | BKTXT | Text of type  Cash for 1  Medical Insurance for 2 |
| VoucherNo | String(50) | Y | AWREF | HIS Reference document number  (external document number) |
| ItemType1 | String(2) | Y | BSCHL | Medical insurance - Dr:01, Cr:11  Medical insurance Adanvance - 19  Refund/Writeoff of medical insurance adanvance 09  Bank deposit DR 40，CR50  Income DR50，CR40 |
| ItemType2 | String(2) | Y | KOART | D – medical insurance 医保  S – revenue 银行和收入 |
| Flag | String(1) | Y | SHKZG | H - Credit  S - Debit |
| AmtLC | Number(17,4) | Y | DMBTR | Amount in local currency |
| AmtDC | Number(17,4) | Y | WRBTR | Amount in document currency |
| AmtGL | Number(17,4) | Y | PSWBT | Amount for Updating in General Ledger |
| ItemTxt | String(200) | Y | SGTXT | Item Text  “MM/DD Cash/Medical insurance income” |
| Subsidiary Ledger | | | | |
| AccountNo | String(20) | Y | SAKNR | G/L Account Number  Mapping relation please see $5.4  费用项目和SAP会计科目的对应关系 |
| GLInd | String(20) | Y | UMSKZ | Special G/L Indicator |
| Tax data | | | | |
| CustNo | String(14) | Y | KUNNR | Customer Number |
| LineItemNo | String(2) | Y | BUZEI | Number of Line Item Within Accounting Document |
| Flag | String(1) | Y | SHKZG | Debit/Credit Indicator |

#### SAP Return

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type**  **(Length)** | **HIS**  **Mandatory** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) | N |  | Error code |
| ErrMsg | String(100) | N |  | Error message |

# Implementation Plan

|  |  |  |
| --- | --- | --- |
| **Phase** | **Finished Date** | **Description** |
| **1. Requirement** | **2017-12-5** |  |
| 1.1 Business dept requirement discussion & confirm | 2017-11-18 |  |
| 1.2 Interface specification document | 2017-11-29 | Generate interface documents that can guide development |
| 1.3 Review Data Flow Diagram | 2017-12-3 | Business dept review data flow diagram |
| 1.4 Review Fields | 2017-12-5 | SAP developers review interface fields |
| **2. Design** | **2017-12-8** |  |
| **3. Development** | **2017-12-20** |  |
| 3.1 Vendor Master | 2017-12-8 |  |
| 3.2 Material Master | 2017-12-8 |  |
| 3.3 Purchase Requisition | 2017-12-11 |  |
| 3.4 Purchase Order & Goods Receive | 2017-12-14 |  |
| 3.5 Purchasing Goods Return | 2017-12-14 |  |
| 3.6 Inventory Movement | 2017-12-20 |  |
| 3.7 Daily Accounting | 2017-12-20 |  |
| 3.8 Refund | 2017-12-20 |  |
| **4. Testing** | **2018-1-15** |  |
| 4.1 Unit Test | 2017-12-25 |  |
| 4.2 Joint Test | 2018-1-15 |  |
| **5. Publish** | ？ |  |
| **Total:** |  |  |

# Appendix

## Drug – Common Unit Mapping

Enumeration entry of drug unit.

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | 1 | g | Gram |
|  | 2 | Kg | Kilogram |
|  | 3 | l | Liter |
|  | 4 | mCi | mCi |
|  | 5 | ml | Milliliter |
|  | 6 | 板 | Blister pack |
|  | 7 | 包 | packet |
|  | 8 | 袋 | bag |
|  | 9 | 对/付 | pair |
|  | 11 | 盒 | box |
|  | 12 | 件/个 | piece |
|  | 14 | 瓶 | Bottle |
|  | 15 | 套 | Set |
|  | 16 | 条 | Strip |
|  | 17 | 听 | Can |
|  | 18 | 桶 | bucket |
|  | 19 | 筒 | cylinder |
|  | 20 | 张 | Sheet |
|  | 21 | 支 | ampoule |

## Material - Common Unit Mapping

Enumeration entry of material unit.

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | 1 | 组 | Group |
|  | 3 | 只 | Piece |
|  | 6 | 张 | Sheet |
|  | 8 | 箱 | Boxful |
|  | 12 | 筒 | Cylinder |
|  | 13 | 桶 | Bucket |
|  | 14 | 听 | Can |
|  | 15 | 条 | Strip |
|  | 16 | 套 | Set |
|  | 18 | 双 | Pair |
|  | 19 | 束 | Hank |
|  | 20 | 升 | Liter |
|  | 22 | 圈 | Round |
|  | 23 | 千 | Kilo |
|  | 24 | 瓶 | Bottle |
|  | 26 | 片 | Piece |
|  | 27 | 批 | Batch |
|  | 28 | 盘 | Plate |
|  | 29 | 米 | Meter |
|  | 31 | 令 | Ream |
|  | 34 | 两 | 50g |
|  | 35 | 粒 | Grain |
|  | 36 | 捆 | Bundle |
|  | 39 | 卷 | Reel |
|  | 41 | 斤 | 500g |
|  | 42 | 节 | Block |
|  | 45 | 盒 | Box |
|  | 47 | 罐 | Can |
|  | 50 | 个 | Piece |
|  | 51 | 副 | Pair |
|  | 52 | 付 | Pair |
|  | 56 | 吨 | Ton |
|  | 57 | 对 | Pair |
|  | 60 | 袋 | Bag |
|  | 61 | 打 | Dozen |
|  | 62 | 串 | String |
|  | 63 | 尺 | Chi |
|  | 66 | 包 | Packet |
|  | 67 | 板 | Blister pack |
|  | 69 | 巴 | Bar |
|  | 70 | TS | TS |
|  | 71 | mm | Millimeter |
|  | 72 | M3 |  |
|  | 73 | m2 |  |
|  | 74 | L | Liter |
|  | 75 | KW | Kilowatt |
|  | 76 | KM | Kilometer |
|  | 77 | Kg | Kilogram |
|  | 78 | gd |  |

## Material – Material Type Mapping

Enumeration entry of material type.

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | 001 | 低值易耗品 | Low value consumbles |
|  | 002 | 一次性材料 | Disposable material |
|  | 005 | 化验材料 | Test material |
|  | 008 | 血透材料 | Dialysis material |
|  | 009 | 放射材料 | Radioactive material |
|  | 010 | 消毒材料 | Disinfectants material |
|  | 011 | 电脑耗材 | Computer consumables |
|  | 012 | 其他卫生材料 | Other medical material |
|  | 013 | 其他植入性材料 | Other Implant material |
|  | 014 | 维修材料 | Servicing material |

## Finance - Cost Classification Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
| Product-40101404 | 001 | 西药费 | Western medicine |
| 002 | 中成药费 | Western medicine |
| Dialysis-40101403 | 027 | 透析费 | Dialysis |
| Others-40101405 | 004 | 挂号费 | Register |
| 006 | 床位费 | Ward bed fee |
| 007 | 诊查费 | Diagnose |
| 008 | 检查费 | Check |
| 009 | 治疗费 | Therapy |

## Error Code