



**Our Health
Our Future**

ANNOUNCEMENT

N° RSSB/17/19


The Management of RWANDA SOCIAL SECURITY BOARD wishes to inform the public that it has started the process of certification of software that will allow RSSB to electronically exchange DATA with private pharmacies in collaboration with Medical Scheme during their regular activities of providing services to RSSB beneficiaries.

The required technical specifications are summarized in the attached document.

Interested software providers are invited to submit their proposals at RSSB Head Office.

Upon submission of their proposals, analysis and feedback will be provided to the concerned software providers.

Done in Kigali, on 17th December 2019


TUSABE Richard
Director General



VCDC (Virtual Claim Data Controller) technical specification version 1.0

PHARMACY SYSTEM REQUIREMENT

1. INTRODUCTION

Rwanda social security Board (RSSB) is a social security government institution mandated with provision of health insurance services among other social security services, to employees and families of government and private institutions affiliated to it. Currently, health facilities and pharmacies in partnership with RSSB provide services in a manual or semi-automated form, which deprives RSSB from accessing data in real time with the required accuracy.

Manual operations also subjects medical services to errors, frauds, poor service delivery and abuse of medical scheme. It is on this background that RSSB has embarked on a modernization process geared towards complete automation process in all its operations while providing medical services to its beneficiaries.

2. AREA OF APPLICATION

RSSB is in process of certifying software with necessary tools to assist partners in the provision of health care services to its beneficiaries. The scope of operations will include services provided by pharmacies. This is important for better visibility and accurate data for the verification of its medical benefits.

3. ABBREVIATIONS.

HTTP: Hyper Text Transfer Protocol

URL: Uniform Resource Locator

API: Application Programming Interface

RRA: Rwanda Revenue Authority

VSDC: Virtual Sales Data Controller

RSSB: Rwanda Social Security Board

VCDC: Virtual Claims Data Controller

SKU: Stock Keeping Unit

RHIA: Rwanda Health Insurers Association

INN_RW_CODE: Code related to the International Non-Proprietary Name in Rwanda

ATC: Anatomical Therapeutic Chemical Classification





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4. DATA FORMAT

4.1 DATA TO RECEIVE FROM RSSB

Every pharmacy Certified Software has to be able to receive the following data:

4.1.1 CMD: GET_AFFILIATES

FIELD	FORMAT
AFFILIATE_NUMBER	Varchar (50)
BENEFICIARY_NUMBER	Varchar (50)
BENEFICIARY FIRST NAME	Varchar (150)
BENEFICIARY SECOND NAME	Varchar (150)
RELATIONSHIP	ENUM (SELF, SPOUSE, CHILD)
DATE_OF_BIRTH	DATE (YYYY-MM-DD)
GENDER	Varchar(10)
EMPLOYER	Varchar (50)
EMPLOYER_CATEGORY	ENUM(PUBLIC,PRIVATE)
AFFILIATION_STATUS	ENUM (ACTIVE, DEACTIVATED)
PHONE_NUMBER	Varchar (50)optional (250...)
ID_CARD_NUMBER	Varchar (50)

4.1.2 COMMAND: GET_PRESCRIBERS

FIELD	FORMAT
PRESCRIBER NAMES	Varchar (250)
COUNCIL_NUMBER	Varchar (50)
TYPE_PRESCRIBER	Varchar (50)
QUALIFICATION	Varchar (50)
PHONE NUMBER	Varchar (20)
EMAIL	Varchar (50)

4.1.3 CMD: GET_HEALTH_SERVICE_PROVIDERS

FIELD	FORMAT
HSP_CODE	Varchar (20)
HSP_NAME	Varchar (250)
DISCRICIT	Varchar (50)



PHONE NUMBER	Varchar(20)
CATEGORY	Varchar (ENUM.....)

4.1.4 CMD: GET_PRESCRIBERS_HEALTH_FACILITY

FIELD	FORMAT
HSP_NUMBER CODE	Varchar (50)
COUNCIL_NUMBER	Varchar (50)
TYPE_PRESCRIBER	Varchar (50)

4.1.5 CMD: GET_INSTRUCTIONS_ITEM

FIELD	FORMAT
INN_RWA_CODE	Varchar (50)
ATC_CODE	Varchar (50)
INSTRUCTION_NAME	Varchar (50)

4.2 IN PHARMACY

4.2.1 MASTER DATA

Master Data is the list of medicines on SKU level merged with RHIA list of medicines to enable pharmacies to sell the stock corresponding to medicines prescribed and reimbursable by RSSB.

When a new Item is created it has to be connected to RHIA list and approved.

RHIA list will be updated every 6 months with corresponding rules and instructions

Data Format **DRUG_ITEM**:

FIELD	FORMAT
ITEM INN-RWA-CODE	Varchar(20)
ITEM NAME	Varchar(250)
ITEM RHIA NAME	Varchar (250)
FORM	Varchar(50)
DOSAGE	Varchar(50)
INN	Varchar(150)
ATC-CODE	Varchar(150)
SELLING PRICE	DOUBLE
MANUFACTURER	Varchar(100)
SELLING UNIT	INTEGER





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4.2.2 SYSTEM USER

System users are all the people who will log in the system to perform any query (SELECT, UPDATE, ALTER, DELETE)

Every user must be tracked (all transaction must be linked to her/his account) and identified with his/her individual personal identifier (a session is secured by a unique ID and a password) to access from the Pharmacy. (Keep this user information up to date)

Data Format **SYSTEM_USER**:

FIELD	FORMAT
GLOBAL_ACCOUNT	Varchar (20)
USER NAME	Varchar (250)
COUNCIL_NUMBER	Varchar (50)
PROFESSION	Varchar (50)
SPECIALITY	Varchar (50)
EMAIL	Varchar(50)
PHONE	Varchar (50)

4.2.3 ONLINE DATA TRANSMISSION (OPTIONAL)

FIELD	FORMAT
ODT_CODE	Varchar (50)
INN_RW_CODE_REQUESTED	Varchar (50)
INN_RW_CODE_DELIVERED	Varchar (50)
QUANTITY_REQUESTED	INTEGER
QUANTITY_DELIVERED	INTEGER
TIME	DATE AND TIME

4.2.4 STOCK ENTRY

Pharmacy must enter stock with following minimum information:

Data Format **STOCK_INFO**:

FIELD	FORMAT
INN_RW_CODE	Varchar (50)
BATCH	Varchar (50)



QUANTITY
EXPIRY DATE

INTEGER
DATE

Every pharmacy must add stock to its corresponding INN_RW_CODE this will help in knowing price variation and will make possible to perform traceability and other advanced analysis.

4.2.5 INVOICE

Every sale must take the right INN_RW_CODE, batch, quantity and expiration date.

Every sale must be certified by VSDC

Every sale must be verified by VCDC

Every sale must be linked to the pharmacy's stock using ODT (functionalities in place, and applicability during the following step)

Send SMS to Affiliate whenever drugs are taken to his account (functionalities in place, and applicability during the following step)

4.2.5.1 Format INVOICE:

FIELD	FORMAT
AFFILIATE_NAMES	Varchar (250)
AFFILIATE_GENDER	Varchar (50)
AFFILIATE_EMPLOYER	Varchar (50)
BENEFICARY_NUMBER	Varchar (50)
BENEFICARY_NAMES	Varchar (250)
BENEFICARY_GENDER	Varchar (10)
BENEFICARY_DOB	DATE
BENEFICARY_WEIGHT	DOUBLE (BENEFICARY_DOB<5 YEAR)
INVOICE_PHARMACY_ID	Varchar (20)
INVOICE_DATE_TIME	DATE AND TIME
ODT (ID) (OPTIONAL)	Varchar (50)
INVOICE_RECEIVER_PHONE& ID	Varchar (20)
INVOICE_COUNCIL_NUMBER	Varchar (20)
INVOICE_TOTAL_85	DOUBLE
INVOICE_TOTAL_AFFILIATE	DOUBLE
INVOICE_TOTAL_100	DOUBLE
CAUSE OF DESEASE	ENUM (...)
DOCTOR_COUNCIL_NUMBER	Varchar (20)
DOCTOR_HOSPITAL_NUMBER	Varchar (20)
ITEM	ALL SOLD ITEM(S)
INN_RWA_CODE	Varchar (20) (MUST BE LINKED WITH RHIA LIST)
ITEM_QUANTITY	INTEGER
ITEM_UNIT_PRICE	DOUBLE



Handwritten signature or initials.



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4.2.5.2 Print out :

RWANDA SOCIAL SECURITY BOARD (RSSB)
B.P. 6655 Kigali Tel : 500166/500167

INVOICE OF MEDICINES PROVIDED N°

Affiliation N° :
Member :
Beneficiary :
Birth date :
Department :
Duty station :

SOC ID:
Internal Data:
Receipt Signature:
RECEIPT NUMBER:
TIME MRC
MRC:
Software Version



PHARMACY

CODE	MEDICINES PROVIDED	Qty	PU. 100%	PT. 100%	P. Member	P. RSSB

TOTAL A-EX
TOTAL B-18.00% 0.00
TOTAL C-0.00% 0.00
TOTAL TAX D 0.00
TOTAL TAX 0.00

TOTAL 100% RWF	MEMBER 15% RWF	RSSB 85% RWF

Pharmacy Signature and stamp

Provided at

« Speciality » which has « Generic » :
If a patient chooses to take « Speciality » in
place of « Generic », RSSB pay considering
The price of « Generic » only

Visa RSSB
Date and Signature

Identification -Product Reception
Name :
Telephone:
Signature:

4.2.5.3 REFUND

The User at the Pharmacy can refund the original invoice within 72 hours and make another one approved by the responsible pharmacist. The original invoice, the refund and the new invoice will be sent to RSSB.

The list of reasons subject to refund is available at Pharmacy Verification Unit. Update will be made periodically and disseminated to all pharmacies partners by e-mail; Only reasons described in the list will be used by RSSB to validate the refund.

4.3 REPORT

In Version 1 only detailed and global reports will be shared to RSSB Back Office (URL):

4.3.1 Detailed Report

FIELD	FORMAT
INVOICE_DATE	DATE
INVOICE_ID	Varchar (50)
BENEFICIARY_NUMBER	Varchar (50)
INN_RWA_CODE	Varchar (50)
QUANTITY (20)	INTEGER
UNIT_PRICE	DOUBLE
ODT_ID (OPTIONAL)	Varchar (50)
HSP_CODE	Varchar (50)
DOCTOR_COUNCIL_NUMBER	Varchar (20)

4.3.2 Global Report

FIELD	FORMAT
INVOICE_DATE	DATE
INVOICE_ID	Varchar (50)
AFFILIATION_NUMBER	Varchar (50)
INVOICE_TOTAL_85	DOUBLE
INVOICE TOTAL AFFILIATE	DOUBLE
INVOICE TOTAL 100	DOUBLE
ODT_ID(OPTIONAL)	Varchar (50)
DOCTOR_COUNCIL_NUMBER	Varchar (20)
HSP_CODE	Varchar (20)



5 CONNECTIVITY

Pharmacy must have internet availability, 1 Mega Bytes per second bandwidth, and a total monthly usage of 10 Giga Bytes at least.

VCDC and VSDC need internet to start and have a token with 24hrs validity, means every 24hrs pharmacy must restart and push all not synced reports to RSSB

6 SERVICE LEVEL

- All invoices for medicines served to RSSB members should be made by using a platform fulfilling Certification requirement.
- Authorisation of special drugs not found on the list will be introduced in the future when ODT will be validated.



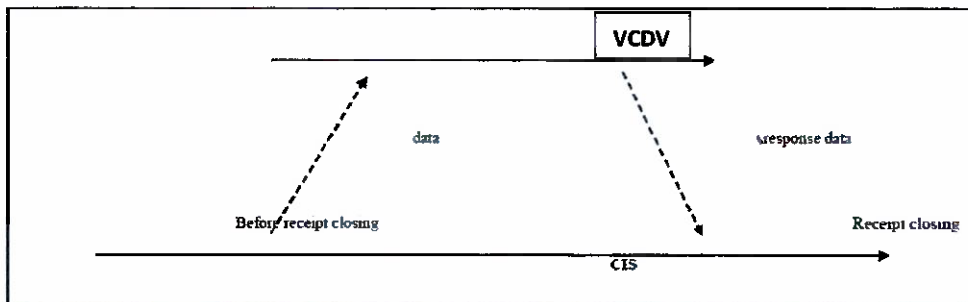
- There should be a link between some medicines with their equivalents not reimbursable by RSSB that are on INN_RWA_CODE and the reimbursement by RSSB will be based on those medicines reimbursable by RSSB as indicated in the MASTER DATA.

7 VALIDATION PROCESS

7.1 VALIDATED INVOICE

Invoice will be validated when the full process has been fully completed and comply to:

- Invoice will be verified when it uses an ACTIVE beneficiary,
- It serves a prescription with valid prescriber assigned on a valid health facility.
- It contains valid item(s) from the Master Data and respects all instructions
- It loads and updates the prescription using ODT (if exists) (Optional)
- It cannot finish if all the above are not checked by VCDV
- Invoice must be certified by RRA with a valid VSDC
- Has to tell the user to get the signing from the picker
- Has to tell the user to verify if the prescription corresponds to the invoice (save scanned document if requested)



7.2 COMMUNICATION

VCDC will communicate to the API on the local machine

7.2.1 Communication Protocol between CIS and VCDC

Messages from the CIS to the VCDC

<CMD></CMD> // will Send the designated CMD TAG

<DATA></DATA> // will Send the designated Format associated with this TAG




7.2.2 Communication Flow between VDCD and CIS

Messages from the VDCD to the CIS

<CMD></CMD> // will receive the requested CMD TAG
<RESPONSE></RESPONSE> // will receive the requested DATA

Every CIS provider must be ready to develop a VDCD when required

7.2.3 RSSB cloud services and CIS communication protocol

HTTP protocol will be used to send data from pharmacy to RSSB server; RSSB will share a URL of its API to POST and GET information.

