

CLAIM-it DATA EXCHANGE PROTOCOLS

XML SPECIFICATION

Version 2.1

CLAIM-it

The provider-end claims generation application

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Version History

Date	Versions	Details
2016-09-01	1.0	Initial version of document
2020-02-05	1.2	Updated to include principal GDRG
2022-12-01	2.0	Updated to accept HIN
2023-05-15	2.1	Updated to include Value Based Care details

1.0 GENERAL INFORMATION

This document specifies the various data communication standards acceptable by the CLAIM-it application. Communication can be via an Application Programming Interface (API), XML or JSON. This document concentrates on the XML format or structure accepted by the application.

2.1 XML SPECIFICATION

This section provides useful information on what the programmer needs to know in order to create the right XML file for the application. This section was written to be straight forward for easy understanding and implementation.

2.1 XML Structure

```
<?xml version="1.0" encoding="UTF-8" ?>
<claims> <!---Container for claim batch-->
  <claim> <!--Start of claim 1-->
   <claimID>156103</claimID> <!-- Unique ID of the claim -->
   <claimCheckCode>74374</claimCheckCode> <!-- Claims Check Code(CCC) for claim -->
   <physicianID></physicianID> <!-- Physician ID -->
   <memberNo>11111111<!-- Member no. of claim -->
   <surname>OWUSU AFRIYIE< !-- Surname of patient -->
   <otherNames>ENOCK</otherNames> <!-- Other names of patient -->
   <dateOfBirth>2005-5-11</dateOfBirth> <!-- Patient date of birth(e.g. 1952-08-01) -->
   <gender>M</gender> <!-- Patient Gender(e.g. F or M) -->
   <hospitalRecNo>2942 / 21</hospitalRecNo> <!-- Hospital record/folder no. -->
   <isDependant>0</isDependant> <!--1 for dependant, 0 for non-dependant -->
   <typeOfService>IPD</typeOfService> <!-- Type of service -->
   <isUnbundled>0</isUnbundled> <!-- Unbundled status -->
   <includesPharmacy>1</includesPharmacy> <!-- Pharmacy inclusive status -->
   <typeOfAttendance>EAE</typeOfAttendance> <!-- Type of attendance -->
   <serviceOutcome>DISC</serviceOutcome> <!-- Type of service outcome -->
```

```
<dateOfService>2022-07-26</dateOfService> <!-- Date of service 1 [Admission Date] -->
<dateOfService>2022-07-28</dateOfService> <!-- Date of service 2 [Discharge Date] -->
<specialtyAttended>MEDI</specialtyAttended> <!-- Specialty 1 -->
<specialtyAttended>DENT</specialtyAttended> <!-- Specialty 2 -->
<investigation>
    <serviceDate>2022-07-26</serviceDate> <!-- Date of inves. Service 1 -->
    <gdrgCode>INVE09D</gdrgCode> <!-- Investigation GDRG code 1 -->
</investigation>
<investigation>
    <serviceDate>2022-07-26</serviceDate> <!-- Date of inves. Service 2 -->
    <gdrgCode>INVE10D</gdrgCode> <!-- Investigation GDRG code 2 -->
</investigation>
corocedure>
    <serviceDate>2022-07-27/serviceDate> <!-- Date of proc. 1 -->
    <gdrgCode>DENT01A</pdrgCode> <!-- Procedure GDRG code 1 -->
    <icd10>K01.0</icd10> <!-- ICD-10 for proc. 1-->
    <diagnosis>Embedded Teeth/diagnosis> <!-- Description of diagnosis for proc. 1 -->
</procedure>
```

```
cedure>
   <serviceDate>2022-07-27</serviceDate> <!-- Date of proc. 2 -->
   <gdrgCode>DENT01A</pdrgCode> <!-- Procedure GDRG code 2 -->
   <icd10>K01.1</icd10> <!-- ICD-10 for proc. 2-->
   <diagnosis>Impacted Teeth</diagnosis> <!-- Description of diagnosis for proc. 2 -->
</procedure>
<diagnosis>
 <gdrgCode>MEDI28A</pdrgCode> <!-- GDRG code for diagnosis 1 -->
 <icd10>B50.9</icd10> <!-- ICD-10 code for diagnosis 1 -->
  <diagnosis>Plasmodium Falciparum Malaria</diagnosis> <!-- Description for diagnosis 1 -->
</diagnosis>
<diagnosis>
 <gdrgCode>MEDI31A< code for diagnosis 2 -->
 <icd10>J18.9</icd10> <!-- ICD-10 code for diagnosis 2 -->
  <diagnosis>Pneumonia</diagnosis> <!-- Description for diagnosis 2 -->
</diagnosis>
<medicine>
  <medicineCode>ARTESUIN3</medicineCode> <!-- Medicine code 1 -->
 <dispensedQty>3</dispensedQty> <!-- Dispensed Qty -->
 <serviceDate>2022-07-26</serviceDate> <!-- Date of Dispensary -->
```

```
cription>
     <dose></dose> <!-- Dose of medicine (e.g. 1 Tablet) -->
     <frequency></frequency> <!-- Frequency (e.g. 2 DAILY) -->
     <duration></duration> <!-- Duration (e.g. 2 MONTHS) -->
     <unparsed>86mg 0,bd,4days</unparsed> <!-- Alternative: free text prescription (e.g. ii tid prn) -->
   </prescription>
</medicine>
<medicine>
 <medicineCode>DESOCHIN2</medicineCode> <!-- Medicine code 2 -->
 <dispensedQty>2</dispensedQty> <!-- Dispensed Qty -->
 <serviceDate>2022-07-26</serviceDate> <!-- Date of Dispensary -->
   cription>
     <dose></dose> <!-- Dose of medicine (e.g. 1 Tablet) -->
     <frequency></frequency> <!-- Frequency (e.g. 2 DAILY) -->
     <duration></duration> <!-- Duration (e.g. 2 MONTHS) -->
     <unparsed>1l st</unparsed> <!-- Alternative: free text prescription (e.g. ii tid prn) -->
   </prescription>
</medicine>
<pri><principalGDRG>MEDI30A</principalGDRG> <!--Final billing GDRG Code: Optional for OPD-->
<extraData>
   <vitals><!-- First reading -->
       <date>2022-07-26T00:00:00.000Z</date> <!-- Date/time of reading of vital -->
       <weight>10.2 kg</weight> <!-- Weight recording in Kilograms -->
```

```
<height>0.13 m</height> <!-- Height recording in meters -->
            <systolic>42 mmHg</systolic> <!-- Systolic recording in mmHg -->
            <diastolic>12 mmHg</diastolic> <!-- Diastolic recording in mmHg -->
            <glucose>4.6 mmol/L<!-- Glucose recording in mmol/L -->
            <glucoseType>RBS</glucoseType> <!-- Type of glucose reading -->
        </vitals>
       <vitals><!-- Second reading -->
            <date>2022-07-26T00:00:00.000Z</date> <!-- Date/time of reading of vital -->
            <weight>10.2 kg</weight> <!-- Weight recording in Kilograms -->
            <height>0.13 m</height> <!-- Height recording in meters -->
            <systolic>42 mmHg</systolic> <!-- Systolic recording in mmHg -->
            <diastolic>12 mmHg</diastolic> <!-- Diastolic recording in mmHg -->
            <glucose>5.3 mmol/L</glucose> <!-- Glucose recording in mmol/L -->
            <glucoseType>FBS</glucoseType> <!-- Type of glucose reading -->
        </vitals>
    </extraData>
    <referralInfo>
     <claimCheckCode></claimCheckCode> <!-- Referral CCC of patient (e.g. 62423) -->
     <facilityID></facilityID> <!-- Facility ID of referrer (e.g. 03-07-08271) -->
      <facilityName></facilityName> <!-- Name of referring facility -->
    </referralInfo>
  </claim> <!-- End of Claim 1 -->
</claims> <!-- End of Batch -->
```

2.2 Related Information

Tag Name	Extra Information	
	OPD = Out patient service	
	IPD = Inpatient service	
<typeofservice></typeofservice>	DIA = Diagnostic service	
	PHC = Pharmacy service	
	Accepted values:	
<isunbundled></isunbundled>	1 = Unbundled service	
	o = Bundled service (All inclusive service)	
	Accepted values:	
<includespharmacy></includespharmacy>	1 = includes pharmacy	
	o = does not include pharmacy	
	Accepted values:	
<typeofattendance></typeofattendance>	EAE = Emergency/Acute Episode	
	CFU = Chronic follow-up	
	ANC = Antenatal	
	PNC= Postnatal	

Accepted values:	
o = Not dependant (Where NHIS card belongs to patient)	
1 = Dependant (Where baby is using NHIS card of parent)	
Accepted values:	
DISC = Discharged	
DIED = Died	
TFOT = Transfer-out	
ABSC = Absconded	

	Accepted values:
	ENTH =Ear, Nose and Throat
	ASUR = Adult Surgery
	DENT = Dental
	OPHT = Ophthalmology
	ORTH = Orthopaedic
<specialtyattended></specialtyattended>	MEDI = Adult Medicine
	PAED = Paediatrics
	PSUR = Paediatric Surgery
	OBGY = Obstetrics and Gynaecology
	RSUR = Reconstructive Surgery
	OPDC = Outpatient Consultation

	Format: Value [space] Unit			
<dose></dose>	e.g 1 Tablet, 2 Capsules, 1 Vial, etc			
	Format: Value [space] Unit			
	e.g 1 HOURLY, 2 DAILY, etc			
<frequency></frequency>	allowed Units: HOURLY, DAILY			
	Format: Value [space] Unit			
<duration></duration>	e.g 1 DAYS, 2 DAYS, 3 WEEKS, 1 MONTHS, 4 MONTHS, etc allowed Units: DAYS, WEEKS, MONTHS			
<unparsed></unparsed>	Prescription as a straight text. Note: it is recommended that this option be used for exception prescriptions where the prescription doesn't fit the typical dose x frequency x duration format			
	This is an optional tag for instances where the health facility, for the			
	avoidance of doubt, wishes to indicate the principal GDRG used in			
	billing the claim.			
<pre><principalgdrg></principalgdrg></pre>	Note:			
	1. The CLAIMit application will ignore its billing rule and use this			
	GDRG as the final billing code for the claim.			
	The GDRG code used should not be outside the set of GDRGs used in the claim.			

	 Principal GDRG is required for all IPD claims with multiple unique GDRGs
	Root tag for all patient vitals.
<extradata></extradata>	Note: Extra data is applicable only to facilities on the Value Based Care
	program.
	Contains details for all readings. [i.e. weight, height, systolic,
<vitals></vitals>	diastolic, glucose and date]
<weight></weight>	Weight of patient in Kilograms. Eg. 10.2 Kg
<height></height>	Height of patient in meters. Eg. 0.13 m
<systolic></systolic>	The systolic blood pressure. Eg. 120 mmHg
<diastolic></diastolic>	The diastolic blood pressure. Eg. 80 mmHg
<glucose></glucose>	The glucose reading of the patient. 4.3 mmol/L
<glucosetype></glucosetype>	Options are: FBS, RBS, 2HPP, HBA1C
	Note: Optional tag but defaults to RBS when left empty
<date></date>	Date and time of reading of vital. Eg. 2022-07-26T00:00:00.000Z

2.3 Required and Optional Fields

Field Name	Conditions	Extra Comments
ClaimID	Required	Should be unique for all claims regardless of batch
Member number /HIN	Required	Number should be 8 or 10 digits
Surname and Other names	Required	
Folder No./Hospital Record Number	Required	
Date of Birth	Required	
Age	Required	
IsDependant	Required	

Claim Check Code	Optional	Should be 5 digits
Date of Service	Required	Format: YYYY-mm-dd
Type of Service	Required	
Procedures	Conditional	 GDRGs used should be strictly procedure GDRGs. Date of procedure and major diagnosis for procedure are required for all procedure entries.
Diagnosis	Required	Optional for Diagnostic only services
Icd-10 codes	Required	Should be a valid ICD-10 code
Investigations	Optional	Required for Diagnostic only services
Medicines	Optional	

Prescriptions	Required	Required for all medicine entries	
Principal GDRG	Optional	GDRG should be part of the list of GDRGs used on	
		the claim.	
		Required for all IPD claims with multiple unique	
		GDRGs.	
		Optional for OPD claims.	
Extra Data and vitals	Optional	Only applicable to providers on the Value Based	
		Care program.	