

open**IMIS Developers Committee Minutes**

Title		Deve	lopers Committee Meeting		Date	20.07.2023
Location		https	://meet.jit.si/openIMISDevel	opers	Time	09:00 UTC
Meeting called by		open	IMIS Initiative	Type of meeting	Weekly Call	
Facilitator		All	II Note taker All			
			imis-developers-committee@ imis-implementers-committee		-	
Chat	channel	<u>https</u>	://discord.gg/khDgTDWUZV,			
#	Item		Discussion			Date
	1		A: Action, C: Confidential, D: Decisi	ion, I: Information, W: Warni	ng	
19	AGPL V3 License	VV	 German lawyer sent provide reaction DEZA still propose <u>http://www.apache.org/</u> HTTP Client mobile app new contract with the lawillingness to adapt new comment from the 	es Bern clause licenses/LICENSE-2.0 o (Point 4 - Redistribut awyer is active - DEZA	needed for the ion)	13.07.2023
59	DHIS2 Integration	 I ew comment nom the lawyer I Demo DHIS2: https://dhis2etl.s1.openimis.org (can be linked to Demo-data) Dataset could be used instead of program https://openimis.atlassian.net/wiki/spaces/OP/pages/1484423 230/Report+queries+for+SSRS+dataset to be checked: Program Dataset Connector (PDAC) review alternate BI architecture #341 Bluesquares data scripts are ready, will start data upload into HISP India dashboard example of cubes with aggregate data from develop.openimis.org: https://github.com/openimis/openimis-be-dhis2_etl_py/blob/de velop/dhis2_etl/services/adx/cubes.py working on ci integration 			20.07.2023	
105	List of modules	5 D	 JLN: https://openimis.atlassia 19/Background+-+Joint+ https://openimis.atlassia 5/openIMIS+Plugins Mapping openIMIS-JLN https://openimis.atlassia 45/JLN+Process+-+Ope started restructuring of update of Tomai session https://openimis.atlassia 641/Webinar+openIMIS oche+modulaire+-+15.0 new graphical overview https://openimis.atlassia 55/openIMIS+Modules Modular Architecture - https://openimis.atlassia 582/Modular+Architecttu finished, next steps: doubles 	Learning+Network+fo n.net/wiki/spaces/OP/ I started: an.net/wiki/spaces/OP/ enIMIS+Mapping documentation #306 n needed: an.net/wiki/spaces/OP/ 3.2022 : an.net/wiki/spaces/OP/ an.net/wiki/spaces/OP/ an.net/wiki/spaces/OP/ an.net/wiki/spaces/OP/	r+UHC pages/58956195 /pages/9454223 /pages/3280240 naladie+L+appr /pages/5895619	25.05.2023

127	Publish AAB/APK on Gplay		 Policies Demo Mobile App on Google Play TZ policy app will be pushed to Google Play - in testing countrywide From Aug 1 2021, Google Play will require new apps to be in AAB instead of APK. We can upload the signing key to Play Store and let it manage signing of the AAB, so this would make our life easier. point App to server with MS SQL issue on Android 13? 	09.02.2023
135	Migration Support Nepal	A	 Migration needs some adaptations first https://openimis.atlassian.net/wiki/spaces/OP/pages/3460562 945/Customize+and+setup+the+modular+version+of+openIM IS+for+Health+Insurance+Board+requirements+in+Nepal project page: https://openimis.atlassian.net/wiki/spaces/OP/pages/3533144 065/Project+Modular+Migration+Nepal issue with Nepal calendar - compare DHIS2 solution: https://ui.dhis2.nu/components/calendar/#nepali-calendar 	29.06.2023
136	AI Project	A	 openIMIS AI-based Claim Adjudication presentation in an internal ISSA webinar (170 participants) working on random test data items & services work well Nepal student interested in thesis, might not get approval to use the NP data 	13.07.2023
147	Tanzania implementation		 Formal Sector modules to be implemented for small farms -> reach out to DCI Kubernete deployment will be checked Bulk family payment in pipeline => requires GePG integration migration Migration plan set up for TZ from February until end of June hand-over workshops to TZ developers started mobile app development training requested PORALG will start development of new functionalities on the basis of the legacy version 	13.07.2023
164	Roadmap		 Old roadmap documents need updating e.g. for the new tender processes #167. <u>https://openimis.atlassian.net/wiki/spaces/OP/pages/40763442</u> <u>/Product+Roadmap</u> start writing up items for draft 	25.05.2023
176	Video tutorials		 <u>Session 1</u> - openIMIS Legacy Web Application <u>Session 2</u> - openIMIS Legacy Web Application Localization New release: <u>Docker installation tutorial</u> - needs to be added to playlist (needs to be public in YT) Update playlists Translations to French language coming up: module configuration older installation video from NP new implementation video <u>https://youtu.be/q12uO3OixOw</u> 	16.03.2023
190	Insuree self registration (general)	Ι	 new integration to foresee with payment gateway, use case for the payment modules ? https://dev.s1.openimis.org/api/self_registration/temp_insuree_reg/ ? Can Nepal devs support on OTP based via email? published in 23-04 Release without testing (no testcases) new developments in planning 	13.07.2023

193	Client self management Mobile App in Nepal	 https://github.com// Refactor needed to model (it use Nepa migration to FHIR https://github.com/ 	o adapt the code to the Main database	13.07.2023
204	Students	MARS Lab of Man but only as one optimized by the second seco	dents for a thesis? I with possible thesis topics nheim will offer openIMIS for next semester tional topic among others ? - introduction was done yesterday	13.07.2023
208	Developer Workshop	 person (Nepal) Intermediate session (04.01.) Preferences: Thailart 	Workshop in January? Rather later in ons as needed (Kickoff for new T3 project: and, Kenya uring community meeting in CM	15.06.2023
223	Testing Scenarios	 <u>081/Test+cases+ov</u> SolDevelo plugin for https://www.soldev test cases needed Installation tests to https://openimis.atl 322/4.+Installation Example for ins https://openimis 196759/Test+In s+11+with+Dood trying out jira test-fi For important busin please contact Hire KeHIA was onboar 	or test case management: elo.com/products/jiratestmanagement/ for Nepal contributions (portal etc) be listed here: assian.net/wiki/spaces/OP/pages/3001057 +test stallation test: atallasian.net/wiki/spaces/OP/pages/3470 stall+openIMIS+on+Windows+10+Window sker+Desktop eatures ness that need to be covered by test cases,	06.07.2023
230	Security auditing	 <u>993/Project+Secur</u> Do we need CSRF to some mutation 2 <u>https://portswigu</u> traditional HTM <u>https://checkmaa</u> -csrf-attacks-on (for graphql API security advisors fr guidelines 	token on graphql ? should they be bound ger.net/web-security/csrf/preventing (for L pages) arx.com/blog/whats-old-becomes-new-again -graphql-apis/	06.07.2023

239	GovStack	 A openIMIS Integration: https://docs.google.com/presentation/d/1IZh5FQIqgmVkk7KU Qui8ETVaFawfsT-DFO8Zql6G-mU/edit#slide=id.p1 https://govstack-global.atlassian.net/wiki/spaces/GH/overview compliance evaluation for openimis started: https://govstack-global.atlassian.net/wiki/spaces/GH/pages/17 2818480/Compliance+Evaluation+openIMIS Postman project shared with GovStack GOvStack testing harness for openIMIS starts with SolDevelo - results were not very good 	06.07.2023
246	International Developers	 A How do we make the community compatible with other language groups at all levels? developers coffee table session (e.g. once in two weeks/ one per month) - same timeslot as gumzo this weeks call with participants from CM and BF #252 	13.07.2023
249	Random Claim Sampling	 HIB has requested support on Claim Random Sampling. upload to github done, needs to be merged in legacy need to be migrated to modular - difficult for HIB not yet decided if it should simply be replaced by AI module 	13.07.2023
250	Performance test (Modular) on big data set	 A • https://s2.openimis.org/front/home can it be further anonymized for use as demo data set needs to be extended to the PostgreSQL version migration script from existing MSSQL DB automatically create data set - functionality already in openIMIS - script from BISq is available (https://openimis.atlassian.net/wiki/spaces/OP/pages/3511418 884/Data+generation) function not found error -> needs to pull from develop branch STPH released a script to development - doku needed count performance #358 	29.06.2023
252	Toumai Community	 Upcoming November 1: Review of openIMIS processes and implementation examples November 15: A database of documents and forms used by openIMIS implementers group: <u>https://groups.google.com/g/openimis-toumai-</u> new candidate has to be contracted 	16.03.2023
260	Documentation management platform	 D Need to develop an implementer's guiding document on the payment layer docs.openimis.org (ReadTheDocs) openIMIS Docs https://openimis.gitbook.io/installation-and-country-localization/ (GitBook) need to standardise & improve module documentation (e.g. which repositories are involved?) topic in coordination desk team meeting #306 make it a priority next semester https://openimis.atlassian.net/wiki/spaces/OP/pages/34633154 577/2022-11-17+Developers+Deep+Dive+Call was a topic in community meeting: https://openimis.atlassian.net/wiki/spaces/OP/pages/35524772 04/Session+IV+Documentation+formats+platforms+sustaining+ and+sharing+knowledge 	29.06.2023

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274 284	Default module configuration	 A dd default configuration to DB for each module so implementers know what can be configured. could be done through migration script #288 Implementer documentation !!! Please update readme.md once you added another module configuration option !!! 1 current version of extracting data for offline mode for web-app 	20.07.2023
	(web)	 is not working nobody is using it, improve mobile apps instead need to communicate to implementers Ticket open to test the offline version for the Legacy <u>https://openimis.atlassian.net/browse/OP-466</u> problem with vouchers - validation via USSD? to check if this can be done via the new mobile solution # 343 	09.02.2023
286	Mauritania Implementation	I • <u>https://openimis.atlassian.net/wiki/spaces/OP/pages/35331440</u> 81/Project+Customization+Mauretania	15.06.2023
288	Implementer documentation	 D Should we add specific documentation for the implementers (not end user or installation) ? Explain the module configuration in details, start from new structure through tender 2? #306 https://openimis.atlassian.net/wiki/spaces/OP/pages/35753820 22/Core+Module 	29.06.2023
295	OpenMRS/BA HMNI FHIR	 openMRS/BAHMNI FHIR needs to be updated to FHIR4 - workload and funds (Notice F2?)? (FHIR3 still works, though) Global OpenMRS packages still on FHIR3 - work in progress to migrate synchronise with Possible Health implementation FHIR4: there were updates in the BAHMNI packages FHIR5: #320 installation scripts from 2019 are difficult and specific the Possible Health Project FHIR update to FHIR4 in OpenMRS done, but no claims Presentation to be held by GIZ NP in Sydney (MedInfo) 	20.04.2023
296	Cameroon Voucher Scheme	 <u>https://openimis.atlassian.net/wiki/spaces/OP/pages/34726215</u> <u>89/Project%3A+Customization+Cameroon</u> bundle/package of services and items, and voucher number validation features was developed by Y-Note #243 UCPC MoH integration to main branch needed (PR needs to be fixed) claim valuation has issues related to demrem calculations 	29.06.2023
301	Split database user	A Consider splitting database user of the webapp and the more advanced user. Right now, the documentation says to create imisuser with db_creator role. The user also has the right to create backups and restore them. The legacy app allows admins to give a path like c:\openimis\foo and dump a file there. Or load the database from such a path. This is a big risk for security. Even if it is restricted to Admins, combined with another flaw, it might have very bad effects	03.03.2022
304	Django module from ol modules	 A dd django modules from openimis modules this is not only about loading py modules, it needs to be part of the DJANGO_MODULE in the assembly settings.py https://github.com/openimis/openimis-be_py/pull/162 	12.05.2022

306	Documentation	Α •	Consistent documentation	
300	QA		 Tasks: https://openimis.atlassian.net/wiki/spaces/OP/pages/3276505 089/Documentation+QA+Activities+2022 Wiki-structure: https://openimis.atlassian.net/wiki/spaces/OP/pages/3290923 009/Wiki+Target+Structure+Draft New focus on installation guide https://openimis.atlassian.net/wiki/spaces/OP/pages/3304488 961/Documentation+Taskforce documentation platform #260 Harmonizing openIMIS descriptions -> https://openimis.atlassian.net/wiki/spaces/OP/pages/3499032 577/openIMIS+Standard+Descriptions+-+Overview List of Wiki maintenance tasks - https://openimis.atlassian.net/wiki/spaces/OP/pages/3481993 288/Wiki+Maintenance 	22.06.2023
311	Mobile Offline extracts	A •	We decided not to include the web offline mode extracts but the Mobile app extracts and imports are necessary (and missing) UI integration is needed	29.06.2023
312	UI-Wording	D •	Automated translation done with verification (on all terms extracted) Who decides on wording in user-interfaces for the standard version? address this question to implementers make it part of the UAT - especially French version STPH Tender2 reviewed frontend terms	13.07.2023
321	Compatibility with other DB systems		Oracle is officially supported in Django openIMIS is most likely not able to take over Support for non-PostgreSQL stored procedures are still a problem different json dialects are handled by Django (indexing problem in MS-SQL reduced, but not efficient) - done DJANGO migration scripts should be used exclusively - create ticket current release: data migration from MS-SQL to PostgreSQL (might need customization) future releases: develop against PostgreSQL, migrate to MS-SQL or others if needed DB management done through Django from now on o will allow for easier DB migration without SQL scripts Tinkersoft seems to have migrated to Oracle for SSF - any news?	13.07.2023
316	The Gambia	A •	https://openimis.atlassian.net/wiki/spaces/OP/pages/34771107 85/Project%3A+Customization+The+Gambia ePayment integration for contribution payment Pilot started 12-Jul-2023 Features asked: o automatic log out after being idle -> check for the token renewal o claim number automatic generation -> Nepal (with specific format) https://openimis.atlassian.net/browse/ONI-62	20.07.2023
317	Implementation in DRC	A •	Implementation kick-off one configuration issue being discussed (waiting period)	20.07.2023

			gration to modular version vith synchronisation of APIs & mobile apps; claim	
		submiss	sion (all rejected) - call with STPH	
320	FHIR R5	 could be official re could be update i 	s be funded through Digital Square? e part of an implementation project elease done e a student project / estimation of days needed in claims: field for scheme not mandatory any more <u>utils.meis.io/</u>	13.07.2023
326	Publication to FHIR IG registry	http://reg	tion to FHIR IG registry <u>http://fhir.org/guides/registry/</u> gistry.fhir.org o be done to enable the NP and TZ extension	25.05.2023
328	Sandbox	28/Sance • default: • MSSQL ○ Der ○ Rel • DHIS2 c ○ who	penimis.atlassian.net/wiki/spaces/OP/pages/32191284 box+Landscape postgres, additional option MSSQL on release server still required for the mobile App mo -> PSQL lease -> MSSQL + Mobile backend demo needed (just data no ETL) ere are the resources from the HISP India project - becially data are needed	09.02.2023
332	PBF link	based fi - in p - doo - Ca ope by	is looking at the link between openIMIS and results nance bilot phase cumentation will be shared later -> wikipage meroon project PoC not possible because HIV enIMIS instance is still Legacy. New contract is signed STPH to migrate to modular and include this nnection	25.05.2023
335	IHE profiles	 board m next act pull in G 	ch IHE to propose OpenHIE standards as IHE profile neeting last Tuesday - next milestone in March ivity: look for IHE experts SIZ expert - will join next FISh call ntact US Gravity project - they joined the last OpenHIE	20.07.2023
337	login case sensitivity	 We can people c PR mad django-r more 	s is case sensitive for login names, mssql isn't make it case insensitive but we have to be careful if create a "admin" user when the actual one is Admin. le, strange CI errors by "django-nose" nose was removed and should not cause a problem any ithub.com/openimis/openimis-be-core_py/pull/193	20.07.2023
339	Installation	 Mo me Change Impass option for https://o 57/depto Installat 	of the docker we to docker 3 erge dist_dkr be assembly anges need to be tested on standard platforms (linux) d windows and documented in <u>Installation Guide</u> olications of having the docker compose versioned in be sembly need to be considered or additional cloud init file: upenimis.atlassian.net/wiki/spaces/OP/pages/35107307 oying+with+docker+and+cloud-init ion script from NP: docker compose to create images via npm	20.07.2023
341	Impact Evaluation NP	Overarc	ained funds from WHO to do impact evaluation in Nepal hing project with many countries - unfortunately HIB re not received in time to be included	20.07.2023

342	BI Architecture	 Integrate elastic search or as part of an attached FHIR server indexation issue rebuild time needs a lot of Ram (in memory approach) Metabase ? issue with weird OI db structure plan deep dive on Soldevelo ADX solution https://github.com/openimis/openimis-be-dhis2_etl_py/blob/cha d-indicator/dhis2_etl/services/adx-indicator.py#L362 Experimenting with Apache Doris as an aggregator 	06.07.2023
350	Multi scheme provider / tenants	 Multi scheme provider vs. true multi tenancy Which data boundaries are needed? use cases coming up in CM and DRC https://openimis.atlassian.net/wiki/spaces/OP/pages/23870832 74/Idea+Separation+of+Target+Groups+Multi-tenancy https://openimis.atlassian.net/wiki/spaces/OP/pages/35224616 97/Idea+Multi-programmes 	09.03.2023
353	CORE MIS	 <u>https://openimis.atlassian.net/wiki/spaces/OP/pages/35314073</u> <u>80/Project+2022.T3+CORE-MIS+Merger</u> weekly deep dives every Tuesday at 15:00 CET open it up for all developers need to better harmonise new features / processes / structures with existing ones new calculation rules 	20.07.2023
354	Time quantity	 A • for plan (enrolment and payment) but also for policy duration; a time quantity could be useful: How openIMIS should manage time quantity BE/FE (e.g. monthly, period ,) • UCUM = FHIR standard for quantifying time https://ucum.org 	20.07.2023
357	caching balance	 A - provide a mechanism to increase the performance to calculate the balance per insuree - currently full table scans: Idea from nepal mission: create a cache_balance table with those columns balance (actually approved) provisional (submitted claim) temporary (draft claim) https://openimis.atlassian.net/wiki/spaces/OP/pages/3542286337/ Benefit+consumption+module+Enquire 	13.07.2023
359	Items and service UI	 Missing entries mask that cannot match to any insuree should not be saved : if none select for a specific concern then applicability for all should be saved for that concerns 1 mask when we might need 1 mask per concern Sex Age group issue for quick fix - BlueSquare verifies 	20.07.2023
361	Review technology to fulfil evergreen idea	I https://openimis.atlassian.net/browse/OP-1372 #376 - decisions may eliminate some points	20.07.2023
363	Product determination stage	 When we create a claim, the items and services are not assigned to a product until the claim is submitted and validation passed. Consequences: the Health Facility cannot know the deductible some report might hide some claims Claim predetermination to have valuation of the claim without saving in DB 	22.06.2023

364	New	D	 Incubator: https://openimis.atlassian.net/wiki/spaces/OP/pages/3578527 747/Product+determination+stage HIB has developed a new Mobile Application 	
	enrollment/Enq uiry App HIB		 Contracted Tinker Technology Already in <u>Play Store</u> can we integrate this into the main release? github-repos? 	20.07.2023
365	Version tracks (LTS)	A	 Fixes are coming for the release CORE-MIS will be changing deeply LTS vs development => features go to which branch merging of branches is out of synch - clean up don't merge pull requests from DEV to DEMO/RELEASE 	06.07.2023
366	SSF ERP NP		 set up deep dive to discuss new features 	15.06.2023
369	Claim automation	A	review process	15.06.2023
370	Change way settings are loaded	A	 <u>https://github.com/openimis/openimis-be_py/pull/95/files</u> useful to add scheduled tasks in settings eg. policy renewal changes were done, checking on integration 	13.07.2023
373	GIZ Intern	Ι	 https://jobs.giz.de/index.php?ac=jobad&id=68534 	06.07.2023
375	DepreciMation WS	A	 we need an regular (e.g. annual) depreciation workshop to review obsolete functionalities and objects 	13.07.2023
376	Migration from CRA to Vite	?	 We need to migrate our frontend modules from CRA to Vite. This will be the first step for other updates (connected to #361). https://openimis.atlassian.net/wiki/spaces/OP/pages/edit-v 2/3581542401 	20.07.2023
377	Isolated module unit testing	Ι	 Being able to run isolated tests from a module before launching all tests (Christophe) 	

Deep Dive Topics:

- 2023-07-20: •
 - data model changes for CORE-MIS migration
 approach for front-end testing
- 2023-07-13:
 - Server Side rendering (SolDevelo)
- 2023-07-06: •
 - DHIS2 integration demo Hiren/Patrick (Swiss TPH)
 - CORE-MIS Integration technical change log (SolDevelo) 0
 - 2023-06-29: Change way settings are loaded #370
- 2023-06-22:
 - FHIR APIs for mobile APP
 - interoperability roadmap
 - GovStack Testing Harness
- 2023-05-25: Server Side Rendering
- 2023-04-20: Review technology to fulfil evergreen idea
- 2023-03-23: Discuss best practices for customising openIMIS without breaking the core •
- new workflow engine / task engine •
- anonymization in HIV scheme •
- Multi scheme providers •
- Kubernetes vs. Docker •
- Payment Layer use-case
- Semantic versioning •

- Mobile applications & API migration to modular
- Database compatibility
- OpenHIE Health Financing toward UHC workflows
- Remodelling Products & Coverage (Benefit package):

https://openimis.atlassian.net/wiki/spaces/OP/pages/3463577606/Product+refactoring

• New features from SSF Nepal

Planned Absences:

Uwe Wahser: most of August Dragos Dobre: $27.07 \rightarrow 16.08$ Saurav: Eric Darchis: 17-Jul to 11-Aug (holiday) Thibault Dethier: Patrick Delcroix: Carl Fourie: Purushottam Sapkota: Soldevelo Team:

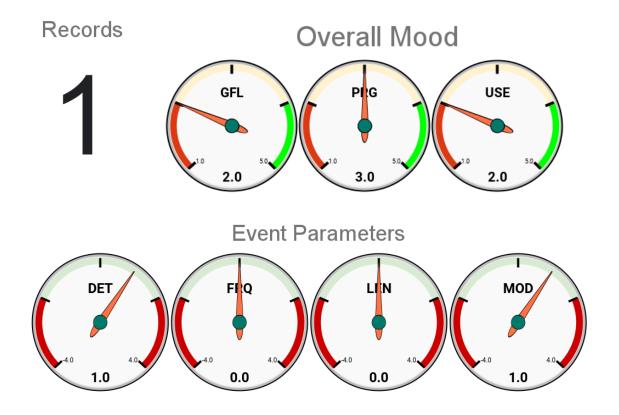
• Absences calendar

After every meeting:

- make a freeze of this document (File->Make a copy) to the <u>archive folder</u> as
- YYYY-MM-DD.openIMIS_DevelopersCommitteeMinutes.pub (YYYY-MM-DD = day of the call)
- Remove confidential information from the archive file:
 - \circ $\$ header rows: Attendees, Distribution List
 - $\circ \quad \text{ column: Who} \quad$
 - all row which are marked with a C in the first column
 - everything below the issue table
- Remove comments
- Remove text highlighting
- Download the archive file as PDF to your computer
- Upload PDF verison of the archive file to

https://openimis.atlassian.net/wiki/spaces/OP/pages/44105736/IT+and+Product+Group+Meetings

Meeting evaluation:



Legend:

Overall mood (status):

- GFL: General feeling about the meeting [very disappointed ... very glad]
- PRG: General feeling about project progress (own project) [big trouble ... great success]
- USE: Usefulness of the meeting (for own project) [not at all ... very much]

Event parameters of the meeting (XYZ needs to be ...):

- DET: Degree of detail [more condensed ... more detailed]
- FRQ: Frequency of the event [fewer ... more]
- LEN: Length of the event [shorter ... longer]
- MOD: Moderation [stricter ... more open]