openIMIS Developers Committee Minutes

Title	Developers Committee Meeting		Date	**15.06.2023**
Location	**https://meet.jit.si/openIMISDevelopers**		**Time**	**08:00 UTC**
Meeting called by	openIMIS Initiative		**Type of meeting**	Weekly Call
Facilitator	All		**Note taker**	All
Distribution list	openimis-developers-committee@googlegroups.com; openimis-implementers-committee@googlegroups.com;			
Chat channel	https://discord.gg/khDgTDWUZV			

#	Item		Discussion	Date
			A: Action, C: Confidential, D: Decision, I: Information, W: Warning	
19	AGPL V3 License	W	● German lawyer sent preliminary report, waiting for DEZA reaction ○ DEZA still proposes Bern clause ● http://www.apache.org/licenses/LICENSE-2.0 needed for the HTTP Client mobile app (Point 4 - Redistribution) ● new contract with the lawyer is active - DEZA is signalling willingness to adapt ● new comment from the lawyer	15.06.2023
59	DHIS2 Integration	I	● Demo DHIS2: https://dhis2etl.s1.openimis.org (can be linked to Demo-data) ● Release DHIS2: ● Dataset could be used instead of program https://openimis.atlassian.net/wiki/spaces/OP/pages/1484423230/Report+queries+for+SSRS+dataset ● to be checked: Program Dataset Connector (PDAC) ● review alternate BI architecture #341 ● HISP India demo is down - replace with openIMIS sandbox server - data from artificially generated dataset #260 ● Bluesquares data scripts are ready, will start data upload into HISP India dashboard next week ● example of cubes: https://github.com/openimis/openimis-be-dhis2_etl_py/blob/develop/dhis2_etl/services/adx/cubes.py	15.06.2023
105	List of modules	D	● JLN: https://openimis.atlassian.net/wxiki/spaces/OP/pages/807600219/Background+-+Joint+Learning+Network+for+UHC ● https://openimis.atlassian.net/wiki/spaces/OP/pages/589561955/openIMIS+Plugins ● Mapping openIMIS-JLN started: https://openimis.atlassian.net/wiki/spaces/OP/pages/945422345/JLN+Process+-+OpenIMIS+Mapping ● started restructuring of documentation #306 ● update of Tomai session needed: https://openimis.atlassian.net/wiki/spaces/OP/pages/3280240641/Webinar+openIMIS+pour+l+Assurance+maladie+L+approche+modulaire+-+15.03.2022 ● new graphical overview: https://openimis.atlassian.net/wiki/spaces/OP/pages/589561955/openIMIS+Modules ● Modular Architecture - https://openimis.atlassian.net/wiki/spaces/OP/pages/3376152582/Modular+Architecture+Draft ● finished, next steps: document modules	25.05.2023

127	Publish AAB/APK on Gplay	A	● [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/34605629 45/Customize+and+setup+the+modular+version+of+openIMIS +for+Health+Insurance+Board+requirements+in+Nepal ● project page: https://openimis.atlassian.net/wiki/spaces/OP/pages/35331440 65/Project+Modular+Migration+Nepal	15.06.2023
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	15.06.2023
147	Tanzania implementation	W	● integration into a accounting systems (muse) ongoing ● Roll-out of modular version starting with pilot => catalytic funds could be used for migration? ● new insurance act expected next year which will bring high volumes of new beneficiaries ● Formal Sector modules to be implemented for small farms -> reach out to DCI ● Kubernete deployment will be checked ● First test with full modular installation started ● 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	15.06.2023
164	Roadmap	I	● Old roadmap documents need updating e.g. for the new tender processes #167. ● https://openimis.atlassian.net/wiki/spaces/OP/pages/40763442/ Product+Roadmap ● start writing up items for draft	25.05.2023
176	Video tutorials	I	● [Session 1](#) - openIMIS Legacy Web Application ● [Session 2](#) - openIMIS Legacy Web Application Localization ● New release: [Docker installation tutorial](#) - 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 https://youtu.be/q12uO3OixOw	16.03.2023

188	Extend to other Schemes (Product redesign) "Beyond Health"	A	● Develop a common roadmap
			● https://openimis.atlassian.net/wiki/spaces/OP/pages/18173460 53
			● found Jiri report, needs to be uploaded
			● Ideas for architecture:
			  ○ https://openimis.atlassian.net/wiki/spaces/OP/pages/3024 289830/openIMIS+beyond+health+features+needs
			  ○ https://openimis.atlassian.net/wiki/spaces/OP/pages/3463 577606/Product+refactoring
			● channel this through Conversion Initiative (DCI)
			● make this a target for next project phase
				26.01.2023

			● discussed in Deep Dive & Bhela	
190	Insuree self registration (general)	I	● 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? ○ would be good to have this for 23-04 Release ● will be released without testing (no testcases) ● new developments in planning	25.05.2023
193	Client self management Mobile App in Nepal	I	● New mobile app for enquiries under development ● https://github.com/tinkertechnology/ ● Refactor needed to adapt the code to the Main database model (it use Nepal specific fields) ● migration to FHIR ● https://github.com/openimis/mobile-self_registration_flutter ● not in 2023-04	15.06.2023
204	Students	A	● Can we recruit students for a thesis? ● Page to be created with possible thesis topics ● contacts to Uni Frankfurt established - presentation in February ● MARS Lab had to be cancelled due to health issues - will be redone next semester ● Presentation held in Frankfurt University : https://openimis.atlassian.net/wiki/spaces/OP/pages/3510534182 ● AI student from NP	15.06.2023
208	Developer Workshop	D	● What about a Dev Workshop in January? Rather later in person (Nepal) ● Intermediate sessions as needed (Kickoff for new T3 project: 04.01.) ● Preferences: Thailand, Kenya ● issue was raised during community meeting in CM	15.06.2023
223	Testing Scenarios	D	● https://openimis.atlassian.net/wiki/spaces/OP/pages/3000664081/Test+cases+overview ● SolDevelo plugin for test case management: https://www.soldevelo.com/products/jiratestmanagement/ ● test cases needed for Nepal contributions (portal etc) ● Installation tests to be listed here: https://openimis.atlassian.net/wiki/spaces/OP/pages/3001057322/4.+Installation+test ● Example for installation test: https://openimis.atlassian.net/wiki/spaces/OP/pages/3470196759/Test+Install+openIMIS+on+Windows+10+Windows+11+with+Docker+Desktop ● trying out jira test-features ● For important business that need to be covered by test cases, please contact Hiren/SwissTPH ● KeHIA was onboarded into testing procedures ● Testing is launched and underway	13.04.2023
230	Security auditing	D	● Digital Square received the security review and recommendation ● new project: https://openimis.atlassian.net/wiki/spaces/OP/pages/3365076993/Project+Security+2022 ● only one high risk in release found - fixed ● need wiki page on security activities ● Digital Square hired a security expert - call on 2023-03-09 12:00 CET	15.06.2023

			○ call revelade that openIMIS is doing 99% of the security testing expected, more than any other Global Good; need better public documentation - Django 3.2 security advisory. It's "only" a denial of service possibility in file uploads. Let's make sure to update for the release. - Do we need CSRF token on graphql ? should they me bound to some mutation ? - security advisors from PATH advise to NOT publish security guidelines - Need to summarise security activities in the wiki	
239	GovStack	A	- openIMIS Integration: https://docs.google.com/presentation/d/1IZh5FQIqgmVkk7KU0ui8ETVaFawfsT-DFO8Zql6G-mU/edit#slide=id.p1 - Demo: ○ video ○ instance - GovStack moving all documentation to confluence: https://govstack-global.atlassian.net/wiki/spaces/GH/overview - Meeting with new GovStack Sandbox implementers last week, they will look at openIMIS details - regular call with openIMIS developers re-activated - deep dive today (again) with gofer - compliance evaluation for openimis started: https://govstack-global.atlassian.net/wiki/spaces/GH/pages/172818480/Compliance+Evaluation+openIMIS - Postman project shared with GovStack - GOvStack testing harness for openIMIS starts with SolDevelo	15.06.2023
246	International Developers	A	- How do we make the community compatible with other language groups at all levels? - French channel in discord? - Workshop organised by Digital Square - call with Digital Square, they set up a workshop on how to integrate other language communities - team from DRC has joined - planning for a developers coffee table session (e.g. once in two weeks/ one per month) - same timeslot as gumzo - shifting the toumai-developer call to second week because of easter monday #252	04.04.2023
249	Random Claim Sampling	I	- 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	15.06.2023
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/3511418884/Data+generation) ○ function not found error -> needs to pull from develop branch - STPH released a script to development - doku needed - count performance #358	15.06.2023

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: https://groups.google.com/g/openimis-toumai-
			• 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/3463315457/2022-11-17+Developers+Deep+Dive+Call • was a topic in community meeting - to be continued	15.06.2023
274	Default module configuration	A	• Add default configuration to DB for each module so implementers know what can be configured. • could be done through migration script • #288 Implementer documentation	09.06.2022
284	offline mode (web)	I	• current version of extracting data for offline mode for web-app 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 https://openimis.atlassian.net/browse/OP-466 • 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	• https://openimis.atlassian.net/wiki/spaces/OP/pages/3533144081/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	10.11.2022
295	OpenMRS/BAHMNI FHIR	I	• 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	I	• https://openimis.atlassian.net/wiki/spaces/OP/pages/3472621589/Project%3A+Customization+Cameroon • bundle/package of services and items, and voucher number validation features was developed by Y-Note #243 • UCPC MoH	20.04.2023

			● running well in pilot ● 10 new health facilities planned		
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	● Add 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	12.05.2022	
306	Documentation QA	A	● Consistent documentation ● Tasks: https://openimis.atlassian.net/wiki/spaces/OP/pages/3276505089/Documentation+QA+Activities+2022 ● Wiki-structure: https://openimis.atlassian.net/wiki/spaces/OP/pages/3290923009/Wiki+Target+Structure+Draft ● New focus on installation guide https://openimis.atlassian.net/wiki/spaces/OP/pages/3304488961/Documentation+Taskforce ● documentation platform #260 ● Harmonizing openIMIS descriptions -> https://openimis.atlassian.net/wiki/spaces/OP/pages/3499032577/openIMIS+Standard+Descriptions+-+Overview ● List of Wiki maintenance tasks - https://openimis.atlassian.net/wiki/spaces/OP/pages/3481993288/Wiki+Maintenance	02.02.2023	
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) ● They are actually included into the April release but not shown in the frontend. There are some issues with the existing system and mobile apps, so Bluesquare is currently testing this and making sure that it's available. ● Implemented in front and back, with rewrites of stored procedures ● Missing end-to-end testing on some features ● data for testing needed from STPH - will be generated through the beta tests	13.10.2022	
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 ● Discuss: Who is responsible? ● make it part of the UAT - especially French version ● STPH started to check French terms on localise ● missing keys (e.g. login screen)	15.06.2023	
321	Compatibility with other DB systems	I	● 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	25.05.2023	

				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 　○ will allow for easier DB migration without SQL scripts	
316	The Gambia	A	●	https://openimis.atlassian.net/wiki/spaces/OP/pages/3477110785/Project%3A+Customization+The+Gambia ● decision for OpenClinics GA https://sourceforge.net/projects/open-clinic/ ● will provide FHIR integration - another interoperability example for us ● demo on CRVS HERA integration - are the APIs openly documented? Based on https://github.com/SecureIdentityAlliance/osia ● A lot of things are not ready yet but Gambia wants to start ASAP, even if incomplete ● They are now considering a capitation system or a hybrid system, Bluesquare to investigate options. STPH warned that the current capitation implementation is very Tanzania centric. ● ePayment integration for commission payment	25.05.2023
317	Implementation in DRC	A	●	Implementation kick-off ● server is acquired ● Production Deployment done ● user documentation completed ● mobile app issue solved ● refreshing trainings in the field ● up and running - remote support being done ● one configuration issue being discussed (waiting period)	23.03.2023
320	FHIR R5	A	●	Can this be funded through Digital Square? ● could be part of an implementation project ● official release done ● could be a student project / estimation of days needed ● update in claims: field for scheme not mandatory any more	25.05.2023
325	FHIR R4 to R4B	A	●	Should we upgrade FHIR R4 from 4.0.1 to 4.3.0? ● Only update of the openIMIS API V4, no parallel version ● should we implement PATCH HTTP method to update only changed fields in resources (PUT is replacing all fields and should validate mandatory fields)?	25.05.2023
326	Publication to FHIR IG registry	A	●	Publication to FHIR IG registry http://fhir.org/guides/registry/ http://registry.fhir.org ● needs to be done to enable the NP and TZ extension	25.05.2023
328	Sandbox	I	●	https://openimis.atlassian.net/wiki/spaces/OP/pages/3219128428/Sandbox+Landscape ● default: postgres, additional option MSSQL on release server ● MSSQL still required for the mobile App 　○ Demo -> PSQL 　○ Release -> MSSQL + Mobile backend ● DHIS2 demo needed (just data no ETL) 　○ where are the resources from the HISP India project - especially data are needed	09.02.2023
329	openIMIS implementation for IDP in cameroon	I	●	https://openimis.atlassian.net/wiki/spaces/OP/pages/3472621589/Project+Customization+Cameroon ● Insurance scheme like Voucher scheme with scoring system ● Bonus and penalties ● curation/filter for potential beneficiaries ● multi provider mechanism is needed: different providers, same invoicing channel ● on hold (waiting for server)	20.04.2023

332	PBF link	I	BlueSquare is looking at the link between openIMIS and results based finance - in pilot phase - documentation will be shared later -> wikipage - Cameroon project PoC not possible because HIV openIMIS instance is still Legacy. New contract is signed by STPH to migrate to modular and include this connection	25.05.2023
335	IHE profiles	A	● Approach IHE to propose OpenHIE standards as IHE profile ● board meeting last Tuesday - next milestone in March ● next activity: look for IHE experts ● pull in GIZ expert - will join next FISh call	20.04.2023
337	login case sensitivity		● postgres is case sensitive for login names, mssql isn't ● We can make it case insensitive but we have to be careful if people create a "admin" user when the actual one is Admin. ● Bluesquare will be updating this soon and add some more features in that area	15.06.2023

339	Installation	A	● can we move to docker compose 3.8?
			  ○ swarms, secrets
			  ○ some option are not supported (see warning if 3.X is used) but nothing seems blocking
			● move to 3.8: yes, but needs review - didn't work
			● rework of the docker
			  ● Move to docker 3
			  ● merge dist_dkr be assembly
			  ● Changes need to be tested on standard platforms (linux) and windows and documented in Installation Guide
			  ● Implications of having the docker compose versioned in be assembly need to be considered
			● option for additional cloud init file: https://openimis.atlassian.net/wiki/spaces/OP/pages/351073075 7/deploying+with+docker+and+cloud-init
			● Installation script from NP:
			● change docker compose to create images via npm
				23.03.2023

341	Impact Evaluation NP	I	● STPH gained funds from WHO to do impact evaluation in Nepal ● preparation has started , results by end of April ● consultant is identified & contracted ● indicators and costs evaluation in progress	20.04.2023

342	BI Architecture	I	● 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/chad -indicator/dhis2_etl/services/adx-indicator.py#L362
			● Experimenting with Apache Doris as an aggregator
				16.03.2023

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/238708327 4/Idea+Separation+of+Target+Groups+Multi-tenancy ● https://openimis.atlassian.net/wiki/spaces/OP/pages/352246169 7/Idea+Multi-programmes	09.03.2023
353	CORE MIS		● https://openimis.atlassian.net/wiki/spaces/OP/pages/353140738 0/Project+2022.T3+CORE-MIS+Merger ● product from Worldbank with implementations in a few Social Protection programmes worldwide ● merger project was kicked off ● first sprint: beneficiaries & households	15.06.2023

			• workshop in Bonn foreseen for week of 2023-05-08 • weekly deep dives every Tuesday at 15:00 CET • open it up for all developers	
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 ,...)	09.03.2023
355	AI Summit	I	2023-07-06 to 2023-07-07 AI for Good Global Summit	20.04.2023
356	Number of Items	A	Performance issue when counting items in search results - materialised view - limit number of result - Index optimisation Issue was fixed	15.06.2023

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
				15.06.2023

359	Items and service mask		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
				23.03.2023

361	Review technology to fulfil evergreen idea	I	https://openimis.atlassian.net/browse/OP-1372	13.04.2023
363	Product determination stage	I	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	27.04.2023
364	New enrollment/Enquiry App HIB		• HIB has developed a new Mobile Application • Contracted Tinker Technology • Already in **Play Store**	25.05.2023
365	Version tracks	I	• Fixes are coming for the release • CORE-MIS will be changing deeply • Keep two versions at the moment ? LTS vs bleeding edge ?	15.06.2023
366	SSF ERP NP		• set up deep dive to discuss new features	15.06.2023
367	Free enroll -5 and 65+		• Adding a product with a 0 contribution doesn't allow enrollment • Making the contribution free for some beneficiaries • make it a deep dive	15.06.2023
368	Server Side Rendering	A	• Deepdive: https://openimis.atlassian.net/wiki/spaces/OP/pages/3557752833/2023-05-25+Developers+Deep+Dive+Call	15.06.2023
369	Claim automization	A	• review process	15.06.2023

<u>Deep Dive Topics:</u>
- 2023-06-15:
  - FHIR APIs for mobile APP
  - interoperability roadmap
- 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
- anonymization in HIV scheme
- Multi scheme providers
- DHIS2 integration demo - Hiren (Swiss TPH)
- Kubernetes vs. Docker
- Payment Layer use-case
- Semantic versioning
- Mobile applications & API migration to modular
- Database compatibility
- OpenHIE Health Financing toward UHC - workflows
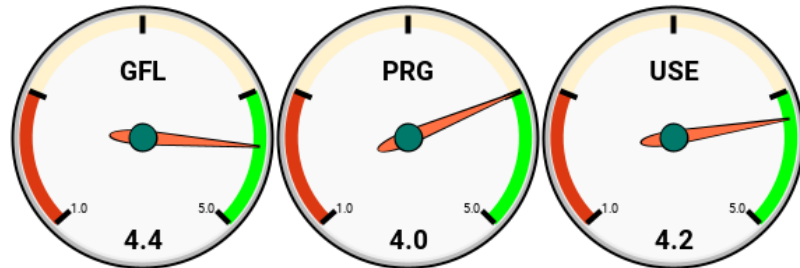- Remodelling Products & Coverage (Benefit package):

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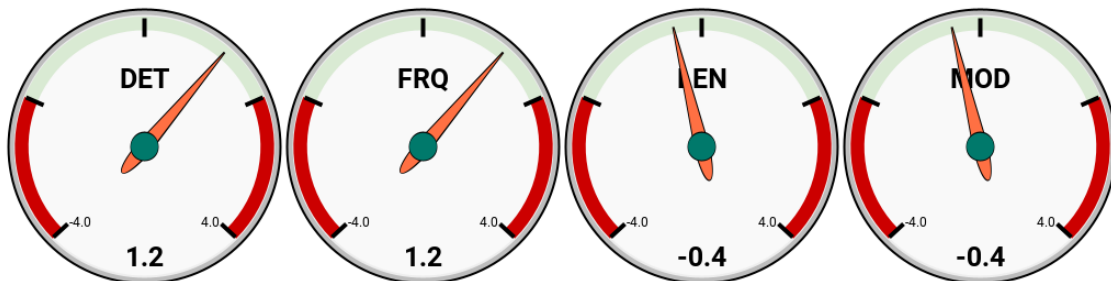
Meeting evaluation:

Records

5

Overall Mood

GFL	PRG	USE
4.4	4.0	4.2

Event Parameters

DET	FRQ	LEN	MOD
1.2	1.2	-0.4	-0.4

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]