This document contains a comprehensive report of the Month 2 XCM Tools maintenance period.



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1. Short description

During the following month, we focused on bringing requested features and we have delivered a dry-run preview, a minimal transferable amount query, refactored the XCM Payment API and further improved the XCM Visualizer by adding new ecosystems and graph options, as well as language support.

2. A detailed breakdown of the work

Work breakdown table	Description

Resolving pull request https://github.com/paraspell/xcm-tools/pull/1189	10 hours/ 160 hours	Following PR brought fixes to bifrost dex in XCM Router and fixed some transfers which failed due to using the wrong asset location, which was not localised to the parachain that created them and wanted to send them.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1194	30 hours / 160 hours	Following PR brought switch of extrinsic for DOT/KSM/PAS/WND transfers from reserve transfer and transfer asset into transfer asset using type, and then which was in preparation for Asset Hub migration.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1192	35 hours / 160 hours	The following issue added the asset object into XCM Fee queries to further improve the experience in matching the fee asset symbols in frontends.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1208	35 hours / 160 hours	Following pull request added Polkadot sponsor logos.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1143	40 hours / 160 hours	Following PR adds Paseo ecosystem into XCM Visualizer.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1215	55 hours / 160 hours	Following PR adds dry-run preview, which allows testing XCMs with a fictional balance that is set by the user.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1174	60 hours / 160 hours	The following issue adds a minimal transferable amount query, which lets users know how much they can transfer at a minimum to receive 1 planck at the destination.

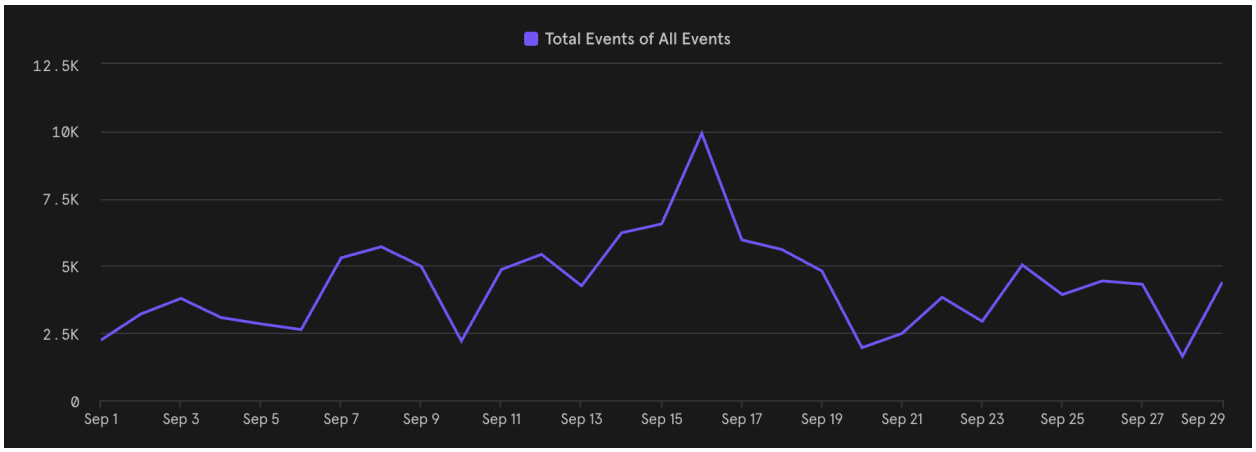
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1230	63 hours / 160 hours	Following PR contains a fix for the transfer info, which was not displaying the correct amount after and also switches Asset Hub to use XCM Payment api for transfers other than the ones utilising execute.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1239	65 hours / 160 hours	The following issue fixes the discrepancy in EVM Addresses, where some addresses caused issues. This turned out to be an issue in PAPI, which we have reported and they have resolved it, so we updated the package. This PR required some research, and a minimal reproduction repo was created, which is why it contains a few hours of work.
Resolving issue https://github.com/paraspell/xcm-tools/issues/994	75 hours / 160 hours	The following issue introduced dry-run check with bypass when creating calls to ensure that the issue is not in insufficient balance and to prevent the user from opening a wallet and signing an incorrect call, which would not work.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1246	77 hours / 160 hours	Following PR sets dryrun bypass amount in calls to set amount, which later turned out not to be an ideal solution and a dynamic amount was implemented later on.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1251	85 hours / 160 hours	Following PR adds dynamic amount selection to fix the incorrect fee prediction.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1233	87 hours / 160 hours	The following issue adds support for Xode Parachain.

Resolving pull request https://github.com/paraspell/xcm-tools/pull/1261	89 hours / 160 hours	Following PR adds locations that were missing in chains, where they can now be queried.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1258	93 hours / 160 hours	Following PR adds ecosystem filters and adjusts the DB of XCM Visualizer to also accommodate new ecosystems (Kusama, Paseo, Westend).
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1262	95 hours / 160 hours	Following PR fixes, scaling for ecosystems and channels.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1264	96 hours / 160 hours	Following PR adds simple fixes to specific features in XCM Visualizer.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1164	97 hours / 160 hours	The following issue resolves the deployment of the Python script responsible for pulling new data about XCM messages each hour to the VPS hosting Visualizer.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1209	98 hours / 160 hours	The following issue temporarily disables xTokens and then re-enables it after we have been contacted it has been re-added on Ajuna.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1200	100 hours / 160 hours	The following issue creates one file that houses all error messages and strings.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1270	101 hours / 160 hours	The following issue disables non non-functioning scenario in XCM Router temporarily, and we have notified the Hydration team, which will register non-functioning routes soon.

Resolving issue https://github.com/paraspell/xcm-tools/issues/1229	101 hours / 160 hours	The following issue was resolved in the issue that refactored the XCM Payment API.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1267	110 hours / 160 hours	The following issue refactors the XCM Payment API and enhances it with delivery fee calculation.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1202	112 hours / 160 hours	The following issue adds a new subgraph to XCM Visualizer, which calculates the total amount of a specific asset that has been transferred.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1273	113 hours / 160 hours	The following issue updates the subscan links, which were incorrect when other ecosystems were selected.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1289	120 hours / 160 hours	The following PR fixes the bridge hub fee calculation.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1278	130 hours / 160 hours	The following issue adds the ability to choose new languages in XCM Visualizer.
Resolving issue https://github.com/paraspell/xcm-tools/issues/1201	135 hours / 160 hours	The following issue adds router links into XCM Visualizer, allowing users to share exactly set queries that display in the Visualizer URL now.
Resolving pull request https://github.com/paraspell/xcm-tools/pull/1296	140 hours / 160 hours	The following PR fixes Mythos > Ethereum fee display in XCM Fee queries.
Monthly maintenance check https://github.com/paraspell/xcm-tools/issues/1302	145 hours / 160 hours	Monthly maintenance check for new chains, updates to xcm versions, manual launch of asset scripts and chain config scripts to query new data.

Monthly maintenance article https://medium.com/@dudo50/paraspell-maintenance-report-month-24-741d0d03f505	145 hours / 160 hours	An article summing up the monthly work.
Consultation hours	165 hours / 160 hours	Consultation hours spent with teams implementing PS or trying to resolve XCM hurdles.
Total hours spent	**165 hours**	

3. Outcomes / Obstacles that occurred during work



Total requests in the month: 125180
Highest request count in one day: 9921
Lowest request count in one day: 1635
A notable increase of 19.39% since last month

4. Next plans

Next month we plan to prepare for the upcoming asset hub migration further, bring long-awaited XCM Router updates and refactors, along with some requested features, such ability to transfer all for local transfers.

5. Conclusion

To conclude this month, everything went according to plan, and we were able to finish everything that we planned during this month. We brought a dry-run preview, a minimal transferable amount query and many more great updates. This month also marks the second year of maintenance on XCM Tools. We are very grateful for the support from everyone, and we will continue making our best to bring the latest and greatest abstraction to XCM. Big heartfelt thank you to everyone supporting this project ❤️!