

This document contains a comprehensive report on the Month 2 maintenance period for the XCM SDK, XCM ROUTER, and XCM API.

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1. Short description



Month 12 introduced a brand new ParaSpell landing page (<https://paraspell.xyz>). This month's maintenance also brought many improvements to XCM Visualizator and useful refactors, code quality improvements, and security improvements to all packages.

2. A detailed breakdown of the work

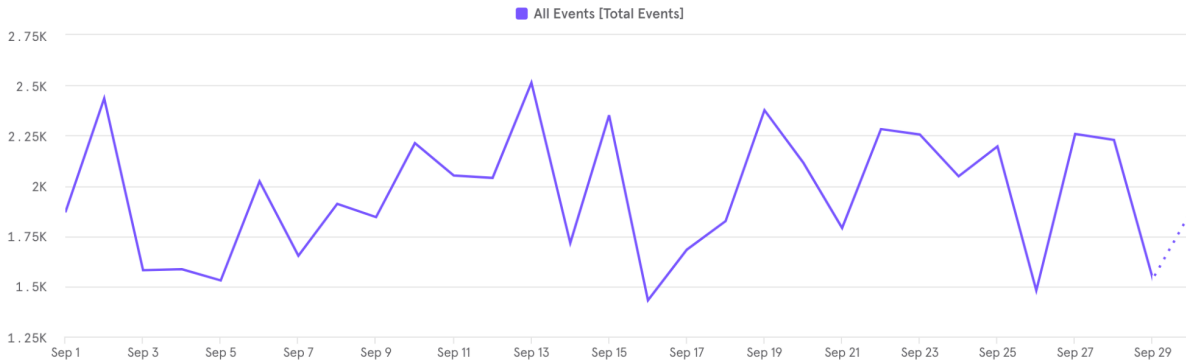
Work breakdown table		Description
Resolving issue https://github.com/paraspell/xcm-tools/issues/358	1 hour / 160 hours	The following issue removes duplicate ZOD validation from XCM API as it is also present in the core tool (XCM Analyser) itself.

Resolving issue https://github.com/paraspell/xcm-tools/issues/338	5 / 160 hours	The following issue sets up codecov bundle analysis which offers comprehensive reports of package size change when PR is introduced. This helps us keep package size low.
Resolving issue https://github.com/paraspell/xcm-tools/issues/344	7 / 160 hours	The following issue resolves unnecessary workflow runs by only running codecov on actually changed code.
Resolving issue https://github.com/paraspell/xcm-tools/issues/385	7 / 160 hours	This issue is part of PR mentioned in the issue above, adding XCM API to the codecov also.
Resolving issue https://github.com/paraspell/xcm-tools/issues/351	8 / 160 hours	The following issue aims to deprecate HRMP channel functionality. This functionality is no longer used as now we have zombienet, parachain launch and more that can perform these tasks easily.
Resolving issue https://github.com/paraspell/xcm-tools/issues/352	20 / 160 hours	This issue aims to refactor code, adding necessary types to SDK which overall boosts safety.
Resolving issue https://github.com/paraspell/xcm-tools/issues/366	60 / 160 hours	Following issue features a comprehensive refactor to asset selection of XCM SDK, XCM API, and XCM Router essentially reducing 7 types of currency to only 4 much easier-to-use ones.
Resolving issue https://github.com/paraspell/xcm-tools/issues/348	60 / 160 hours	This relates to the issue above
Resolving issue https://github.com/paraspell/xcm-tools/issues/349	60 / 160 hours	This relates to the issue above

Resolving issue https://github.com/paraspell/xcm-tools/issues/343	80 / 160 hours	The following issue fixes all hidden eslint errors further improving code quality, efficiency and safety.
Resolving issue https://github.com/paraspell/xcm-tools/issues/362	90 / 160 hours	The following issue refactors asset script, adding foreign assets and complex multilocations to asset selection map enhancing currency selection
Resolving issue https://github.com/paraspell/xcm-tools/issues/347	110 / 160 hours	The following issue adds a comprehensive set of E2E (End to end) tests to the XCM Playground which tests every option available giving us precise debugging and analysis of the XCM Tools capabilities.
Resolving 4 tasks from issue https://github.com/paraspell/xcm-tools/issues/258	140 / 160 hours	The following issue added yet another improvement to the XCM Visualizator. These improvements include floating animation to chains as well as a completely overhauled and interactive design of channels, the ability to export graphs or queried data (Useful for data scientists), and the ability to display queried XCM messages in the explorer.
Resolving issue https://github.com/paraspell/xcm-tools/issues/372	170 / 160 hours	The following issue finally resolves our brand new landing page for entire set of XCM Tools not just XCM API. ParaSpell XCM Tools now has a complex, comprehensive, and professional landing page that allows everyone to see and learn more about the tools.
Updating docs https://github.com/paraspell/docs/commit/dc6a83287ed7a6389c56ffd5546af75d592bf6e1	170 / 160 hours	The following commit improves the index page of the documentation.

Updating dos II https://github.com/paraspell/docs/commit/1901af6878f1c253c4ebe35cff91b6ad2d048fa1	170 / 160 hours	The following commit improves the section headlines to feature logos for certain tools.
Monthly maintenance check https://github.com/paraspell/xcm-tools/issues/404	175 / 160 hours	Monthly maintenance check to see which chains left the network/upgraded XCM version/changed to another XCM pallet or added XCM compatibility
Report article https://medium.com/@dudo50/paraspell-maintenance-report-month-12-598bb5a2369e	175 / 160 hours	Monthly report of work summed into article
Consultation hours	190 / 160 hours	Consultation hours spent with other teams interested in implementing our tools
Total hours spent	190 hours	We will use 30 extra hours next month to decrease the number of hours spent in october from 160 to 130 due to the ongoing Web3Foundation proposal for the xcNFT pallet. We would like to push boundaries in Non-fungible asset sharing also. Potentially introducing a new use case to XCM SDK once XCM NFT becomes a thing on Polkadot. https://github.com/w3f/Grants-Program/pull/2358#issuecomment-2379526631

3. Outcomes / Obstacles that occurred during work



Total requests in the month: 58683
Highest request count in one day: 2513
Lowest request count in one day: 1430

Increase of 5.81% since last month

4. Next plans

In the next month, we will focus on continuing the integration of PAPI and finishing some technical depth removal maintenance issues. We will also add refactors to freshly added features or newly discovered areas that require refactoring. Thus, we will mostly focus on maintenance tasks rather than improvements.

5. Conclusion

This month concludes an entire year of successful maintenance efforts to keep ParaSpell XCM Tools up to date and innovate them further. We are proud to receive such support from the community. We would like to thank everyone who voted in favor of our referenda and also to everyone who gave us support from the start. Your valuable support gave us the opportunity to push the boundaries of cross-chain communication on Polkadot further.