

CP2P

White Paper

CP2P White Paper — Chat Peer to Peer

Spreading the spirit of gratitude —
“thank you” — from Japan to the world.
A decentralized chat for a world without war.

Based on CP2P v2.2.000

Languages: 24 (beta translation) / Devices: PC · Smartphone · Tablet (PWA-ready)

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Development by Kazuya Hashiguchi

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1. Introduction

About This White Paper

This white paper is a short, friendly read that explains **what CP2P (Chat Peer to Peer) was created for, and the kind of world it hopes to help build.**

We've kept the technical language as simple as possible and focused on the **spirit and the ideas that matter most** to CP2P. If you'd like step-by-step instructions, please see the separate "CP2P User Guide." This document is for anyone considering whether to try CP2P, or who simply wants to understand the thinking behind it.

In a nutshell

CP2P pairs a safe chat that connects you directly — without going through a server — with "Thanks Points" that make mutual gratitude visible. It's a new kind of place to communicate.

2. Our Vision

Spreading the spirit of gratitude — “thank you” — from Japan to the world, working toward a world without war.

2.1 The Wish That Gave Rise to CP2P

CP2P was born from one simple belief: if we could honestly share our gratitude — our “thank you” — and our appreciation — a “Like” — with the people around us, **warmer relationships would grow**, and we might help ease the slander and conflict that trouble society today.

What we aim for is not a world built on taking from one another, but a world that **grows richer the more we share** kindness and gratitude.

2.2 “If We Share, There Is Plenty”

At the heart of CP2P lies an old contrast. If we fight over things, there is never enough. But if we share, somehow there is always plenty. CP2P wants to use the power of technology to spread that second world — a **world of giving and love**.

**“If we fight over things, there is never enough.
If we share, there is always plenty.”**

This idea is the starting point for everything that follows in this paper — the “Thanks Points” that make gratitude visible, the invitation system that leaves no one behind, and the translation that reaches the world’s many languages.

3. What's Happening in Communication Today

3.1 Connected as Never Before — and Hurt as Never Before

Thanks to the internet and social media, we can connect with people anywhere in an instant. Yet hurtful words, slander, and the conflict and division that grow from misunderstanding have also never felt so close. Strong words spread faster than kind ones — many of us have felt that in the air.

3.2 What Makes Conflict So Easy

Many services are built on **competing for attention and reactions**. More provocative, more visible — that race can sometimes fuel conflict. And because so much of what we say is gathered onto the servers of large companies, it can be hard to see where our words and information actually go.

The two challenges CP2P faces

- ① A design that spreads conflict more easily than gratitude.
- ② The unease of having your conversations gathered somewhere out of sight.

CP2P was designed to face both of these head-on. The chapters that follow share our answers.

4. The World CP2P Aims For

4.1 Toward a Place Where Gratitude Circulates

CP2P aims to be not a place that competes over conflict, but a place where **gratitude and kindness circulate**. The more you send messages and share “Likes,” the more “thank you” naturally accumulates. We want to bring that experience — small exchanges that warm the bonds between people — to people all over the world.

4.2 Our Promises

- **Gratitude at the center.** Not a competition for attention, but the sharing of “thank you.”
- **Your conversations are yours.** Ordinary messages are exchanged directly with the other person wherever possible, never stockpiled on a server.
- **No one left behind.** No one should have to give up on joining because of a language barrier, or because they don’t yet know anyone.

The shape we’re aiming for

To let you naturally experience “if we share, there is plenty” in everyday chat. That is CP2P’s goal.

5. What Is CP2P? (A Plain Overview)

A decentralized chat that runs in your browser alone and connects you directly, without going through a server.

5.1 A Direct Connection, Without a Server (P2P)

In an ordinary chat, your message first passes through some company's **server** before it reaches the other person. CP2P is different. Wherever possible, your message is exchanged **directly between you and the other person**. This is called "P2P" (peer-to-peer — individuals connecting directly).

Think of it like **handing a letter to someone directly**, instead of dropping it at the post office. There's far less worry about your words being stockpiled along the way, so it's more reassuring. And if the other person happens to be offline, "Server-Relay sending" can safely hold your message — encrypted — and deliver it once they come back online.

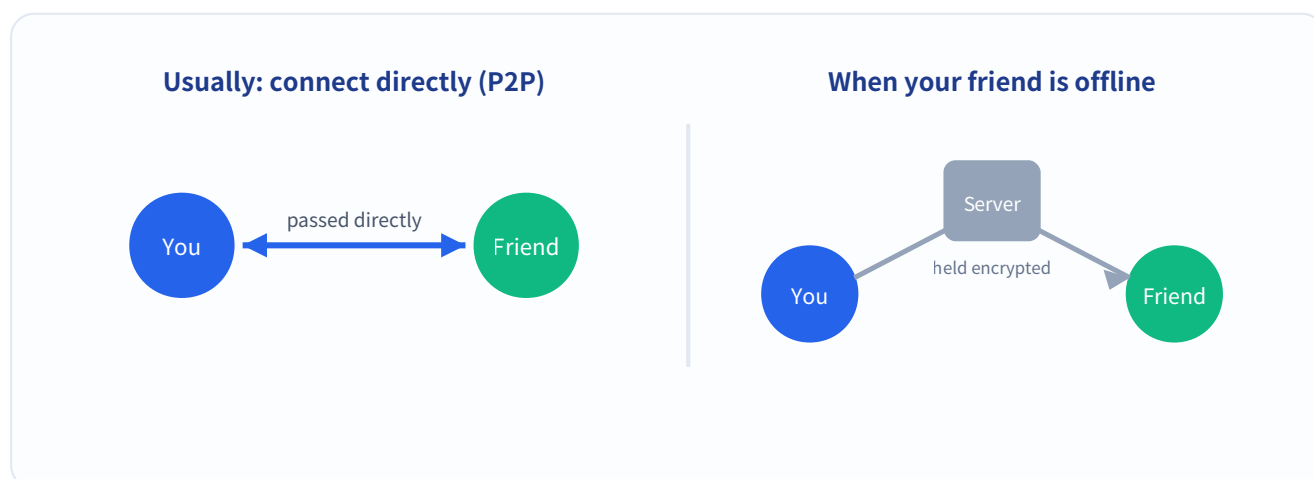


Figure 1: How CP2P connects (the content is encrypted, so even the server can't read it)

5.2 No App to Install

CP2P works by **simply opening your browser**. And if you "Add to Home Screen," it launches with a single tap just like an app and can receive notifications too (this is called a PWA). No download from a new app store and no complicated setup are required.

5.3 In the World's Languages

CP2P supports **24 languages**. A message you receive can be translated into your own language with a single tap. You can enjoy real-time conversations with people overseas, each in your own native tongue.

“Thank you,” in the world’s languages

Translation uses a high-quality translation model. We are also rolling out the localization of the interface itself, starting with major languages (the translation feature is in beta and improving over time).

5.4 Rooms You Can Choose to Fit Your Purpose

Conversations take place in “rooms,” which you can choose to suit your needs — from a private room for close friends, to an open room anyone can join, to a high-trust room only for people who have completed identity verification. Use them as the occasion calls for.

6. Thanks Points – Making Gratitude Visible

A feature unique to CP2P that makes mutual gratitude visible.

6.1 Earned Naturally, Just by Using It

“Thanks Points” build up naturally, with no special steps, **every time you exchange messages or share a “Like.”** The points you collect can also be sent to someone as a “thank you.” Gratitude that circulates in a form you can see — that is the heart of CP2P.

6.2 The Circle of Gratitude

Points are spent a little at a time when you use certain handy features. When that happens, the points go to one of two places. One is **“burn”** (that amount disappears from the world); the other is the **“treasury”** (a balance the CP2P Foundation holds for everyone). Points gathered in the treasury go toward things like welcoming new members (referral-campaign bonuses).

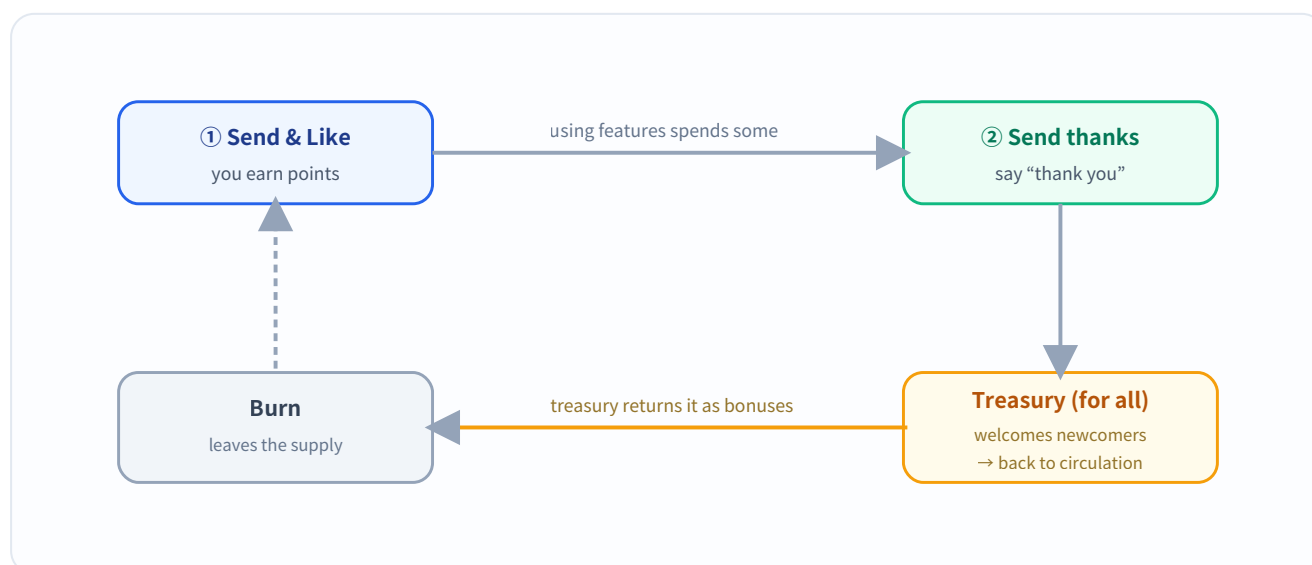


Figure 2: The circle of Thanks Points (gratitude → part is burned / sent to the treasury → the treasury returns it to people)

6.3 The Mechanisms That Keep It Healthy

There is an upper limit — a **hard cap** — on how many points can ever be issued. Every exchange is also kept in a digitally signed record (a ledger), so it cannot be altered after the fact. We’ve taken care with how things are displayed, too, so that others can’t see how much anyone holds. In this way, the points are designed to remain a trusted “measure of gratitude.”

A rough guide

For example, sending and receiving messages or “Likes” awards a little to both the giver and the receiver. The exact amounts and limits **may change depending on campaign and operational settings**. You can check the latest status in the in-app “Point Economy Dashboard.”

7. Built for Peace of Mind

CP2P is designed with privacy and safety as the top priority.

7.1 Everyday Messages Aren't Left on the Server

Ordinary messages are exchanged directly between your browser and the other person's, and are **not stockpiled on a company's server**. Your conversations are, in principle, only between you and the other person.

7.2 Protected by Strong Encryption

When the other person is offline and you use "Server-Relay sending," your message is **firmly encrypted with the latest cryptography**. The server only holds it in its encrypted form and cannot read the contents. Once it has been delivered, the encrypted text on the server is promptly erased.

7.3 A Record That Can't Be Rewritten

Each point transaction is given a digital signature and kept as a record (a ledger) linked together like a chain. **If even one past record were rewritten, everything after it would no longer match — and that would be detected at once.** This prevents the unauthorized tampering of points.

Care for your privacy

Personal information registered for things like identity verification is stored encrypted, and important fields are hidden even on screen. The balance of "ease of use" and "peace of mind" is the starting point of CP2P's design.

8. Growing Together — Leaving No One Behind

8.1 Referrals — Growing Richer Together

CP2P has a “Referral Campaign” in which inviting a friend earns Thanks Points for **both the inviter and the invitee**. And when the invited person completes identity verification, a welcome bonus is added for both. Here, too, you can see the idea that “if we share, there is plenty.”

8.2 You Can Join Even Without an Acquaintance

“There’s no one nearby to invite me” — for people in that situation, the CP2P Foundation provides a **shared invite code that anyone can use**. With it, you can join with confidence even on your own, and receive a welcome from the Foundation. **Leaving no one behind** is something CP2P holds dear.

The Foundation code

If there’s no one nearby to invite you, enter the CP2P Foundation’s shared code **CP2PFUND** at sign-up to receive a welcome bonus.

8.3 Small Touches of Kindness in the Design

Invite codes deliberately avoid easily-confused characters (0, O, 1, l, and L). It’s a small consideration so that a single typo never leaves you disappointed that “it just won’t connect.” CP2P puts care into details like these — even where you might never notice.

9. Where You Can Use CP2P

Scene	How it helps
Family, friends, clubs	Safe, private exchanges among close companions. Share “thank you” and make your bonds even warmer.
Small businesses	For contacting and supporting customers. Entry-fee rooms help you create a calmer space for conversation.
A culture of encouragement	Through Thanks Points, build healthy communication where you appreciate and cheer one another on.
Multilingual connections	Talk with friends and companions overseas — each in your own native language — with real-time translation.

Just right for anyone

No difficult setup — open your browser and you can start right away. CP2P is for everyone who thinks, “I wish there were a place to share gratitude.”

10. The Future of CP2P

CP2P is still growing. We will keep working on the following.

- **Toward every language.** We will keep expanding both the quality of translation and the localization of the interface itself, so that as many people as possible can exchange “thank you” in their own native tongue.
- **Greater peace of mind.** We will tirelessly keep improving the mechanisms for privacy and safety.
- **A place where gratitude circulates even more.** With Thanks Points at the core, we will grow a community where encouragement and kindness circulate naturally.

About this paper

This paper is based on CP2P as of v2.2.000. Screens, features, and figures may change with future updates.

11. Closing

Thank you for reading this far.

CP2P was born from a belief in a single word — **“thank you.”** By sharing our gratitude, the bonds between people grow warmer; and as that circle widens, the world can surely become a little kinder. That is what we believe.

Not taking, but sharing. Connected not by conflict, but by gratitude. Why not begin that small first step from your own chat?

**Let’s spread “thank you”
to the world, together.**

Appendix A: Simple Glossary

Term	In plain words
CP2P	The name of this service. A browser-only chat that uses a direct-connection (P2P) method.
P2P (peer-to-peer)	A way of communicating in which participants' browsers exchange data directly, without going through a server.
Thanks Points	CP2P's own "measure of gratitude." Earned through sending/receiving and "Likes," and can be sent as thanks.
Burn	When spent points disappear from the world, reducing the total supply.
Treasury	Points the CP2P Foundation holds for everyone. Used for things like welcoming new members.
Ledger	A chronological, chained record of point transactions. Digitally signed, so tampering can be detected.
Server-Relay sending	A mechanism that holds an encrypted message on the server while the recipient is offline, and delivers it later.
Identity verification	A way to confirm who you are. Verified users can enter high-trust rooms and issue invite codes.
Invite code / Foundation code	A keyword used for referrals. Those with no one nearby to invite them can use the Foundation's shared code.
PWA	Technology that lets a website be used like an app — add to home screen, receive notifications, and more.

Appendix B: Technical Overview

For those who would like to know more, here is an overview of the technology behind CP2P (for how-to instructions, please see the separate “User Guide”).

Item	Overview
Communication	Direct P2P communication via WebRTC. Ordinary messages are not stored on the server.
Message encryption	Server-Relay sending uses ECDH P-256 + AES-256-GCM (end-to-end encryption).
Digital signatures	Point transactions are signed with ECDSA P-256 and recorded in a hash-chain ledger.
Password protection	Room passwords are hashed with bcrypt. Plaintext is never stored.
Languages	24 languages for both the UI and message translation (translation feature in beta).
Devices	PC, smartphone, and tablet. Runs in the browser and can be installed as a PWA.
Point economy	Includes an issuance cap (hard cap), burn, and a treasury balance, visualized on a dashboard.

Our approach to security

CP2P combines encrypted communication, a tamper-detectable ledger, and encrypted storage of personal information to build a foundation where gratitude can be exchanged with peace of mind. Specifications may change as we make improvements.

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