API Gateway

English | [illegible]

[illegible] Typert API Gateway [illegible] Remote [illegible] `/api` [illegible] Client [illegible] Connection [illegible]

[illegible]

[illegible] `@Remote` [illegible] `@RemoteScope` [illegible] Client [illegible] `ctx.remote` [illegible] Client [illegible]

`@Remote` [illegible] Host Context [illegible] Cordis [illegible] `TypertLookupMap` wire [illegible] wire ident `ctx.typert.lookups` [illegible] `Agent` [illegible] Host [illegible] `agent` [illegible] w `agentId` [illegible] Gateway [illegible] id [illegible] `ctx.typert.lookups.configure()` [illegible] lookup key [illegible] symbol[illegible]

`@RemoteScope(key)` [illegible] `ctx.typert.contexts` [illegible] identity [illegible] Context[illegible] `Agent` ontext [illegible]

[illegible] `TypertRemoteService` [illegible] Cordis [illegible] key [illegible] Remote name `readonly typertRemote = bindTypertRemote(this, serviceKey)` [illegible] binding[illegible] symbol[illegible]

```
import type { Agent } from '@deepseek-ai/dsh-agent'
import { TypertRemoteService, Remote, RemoteScope } from '@deepseek-ai/dsh-typert-protocol'
import type { Context } from '@deepseek-ai/cordis'

export interface CreateGoalRequest {
  objective: string
}

export interface CreateGoalResult {
  accepted: boolean
}

export class GoalService extends TypertRemoteService {
  constructor(ctx: Context) {
    super(ctx, 'goals')
  }

  @Remote('create')
```

```
  createForClient(
    agent: Agent,
    request: CreateGoalRequest,
    signal: AbortSignal,
  ): CreateGoalResult {
    signal.throwIfAborted()
    return this.create(agent, request)
  }

  @RemoteScope('agent', 'current')
  currentForClient(): CreateGoalResult {
    return { accepted: true }
  }

  private create(_agent: Agent, request: CreateGoalRequest): CreateGoalResult {
    return { accepted: request.objective.length > 0 }
  }
}
```

Remote □□□□□□□□□□□ Pro`signal: AbortSignal`□`args`□□□□□□□`AbortSignal`□□□□□

Client □□□□□□□□□□□□□□□□ J`ctx.remote.<namespace>`□□`agentCtx.remote.<namespace>`□□□ namespace □□□□□ `remote.<namespace>` □□□□ Cordis □□□□Client ass`ctx.remote.$mount()` □□□□□□□□□□□□□□□ namespace □□□□□□□□□ `ctx.remote.<namespace>` □`agentCtx.remote.<namespace>` □`inject`□□`remote` □`remote.<namespace>`□□□□□□ contribution □ assembly□□□□□□□ namespace □□□□□□`@Remote`□□□□□□□`TypertContextMap` □□□□ wire identi identity `@RemoteScope` □□□□□□□□□□□

```
import type { SessionId } from '@deepseek-ai/dsh-session/types'
import type { AgentContext } from '@deepseek-ai/dsh-api-session-controller/client'
import type { Context } from '@deepseek-ai/cordis'
import type {} from '@deepseek-ai/dsh-api-remotes/client'

export const inject = ['remote', 'remote.goals']

declare const ctx: Context
declare const agentCtx: AgentContext
declare const agentId: SessionId

await ctx.remote.goals.create(agentId, { objective: 'ship it' })
await agentCtx.remote.goals.create({ objective: 'ship it' })
```

Client [@deepseek-ai/dsh-api-remotes [/remote] [ctx.remote.$mount()] Host Remo
Gateway Remote JS

api-remotes [ctx.remote React Client Host Remote

	@deepseek-ai/dsh-typert-protocol	decorator Gateway binding Cordis
	@deepseek-ai/dsh-typert-generator	Host ts.Program Remote lookup Context Host H
Host	@deepseek-ai/dsh-typert-registry Loader	Host s ctx.typert lookup Context
Host	@deepseek-ai/dsh-api-session-controller	Agent/Session Typert lo
Host	@deepseek-ai/dsh-api-gateway	[ctx.typertGateway Remote endpoint Context Cordis
Client	@deepseek-ai/dsh-api-gateway/client	[ctx.remote [remote.<namespace> Connection
Client	@deepseek-ai/dsh-api-remotes/client	[/remote
	@deepseek-ai/dsh-client-connection	RPC carrier /api HTTP envelope bridge

API Gateway Host dispatcher Client Remote endp ts.Program Host Client Context Clie
Host Gateway

[build:lib:host build:lib:client [build:web Host lib tsc -b tsconfig.host.json [tsdown --env.DSH_BUILD_FACE host
Typert generator Host Project Reference tsdown Ho ts.Program te Clien tsc -b
tsconfig.client.json [tsdown --env.DSH_BUILD_FACE client Remote Client Typert

tsdown work lib/types tsc JavaScript Clien DSH_BUILD_FACE s
Node loader browser bundle

api/remotes api/gateway api/session-controller [api/workspace-controller [client/connection TypeScript fac
api/remotes Client project Host ts /remote aggrega tsconfig.host.json [tsconfig.client.json api-
remotes [clientBundle(..., { hostPhase: true }) Host Host tsdown Client tsdown browser
lookup [@deepseek-ai/dsh-api-session-controller [api-remotes]

[lib/]

typert.host.js	Host Loader	Host face schema
typert.host.d.ts	Host	Host face
typert.remote-client.js	api-remotes	[TypertRemoteContribution cod
typert.remote-client.d.ts	Client	TypertRemoteNamespaceMap TypertRemoteScopeMap Client-safe
typert.remote-client.d.ts.map		Host Remote

[./typert] Host Loade ./remote] Host-for-Client export

Remote Client wire ctx.remote.goals.create [@Remote] Host declaration-m Client [.d.ts]

Remote TypertLookupMap lookup Context JSON Typ

Remote Connecti /api] Client Remo connection.rpc.call('/api', '<namespace>/<method>', { args }, signal) HTTP carrier POST /api/<namespace>/<method> payload args

Connection HTTP bridge /api] FetchHandler Typert Gateway SRC mar 404Connection RPC id envelope Gateway Remote Connection carrier

Gateway [args wire lookup Context binding

lookup [register() configure() r Host e gateway/lookup-unavailable Controller [agent] [session resolver live Agent session lookup Agent Session ownership f RemoteError session/not-found [session/agent-busy]Gateway wire gateway/internal]

Client Host endpoint SRC

SRC

Host [node --import tsx/esm] Typert de TypertRemoteService [bindTypertRemote() binding Gateway ts.Program [remoteMethods()

SRC [illegible] `parameter` [illegible] `agent` [illegible] `session` [illegible] `agentId` [illegible] `sessionId` wire [illegible] Host [illegible] prot
`@RemoteScope` [illegible] Host Context [illegible] wire [illegible] SRC [illegible] TypeScript [illegible] Zod schema[illegible]

SRC [illegible] Host [illegible] Client [illegible] Host [illegible] decorator[illegible] Client Remote [illegible] `lib/typert.remote-client.*` [illegible]

[illegible]

Web [illegible] `pnpm run build` [illegible] Host[illegible] Client [illegible] Web [illegible] Host [illegible] Client plugin watcher[illegible]

```
pnpm dsh web
pnpm run dev:web
```

`dsh` [illegible] tsx [illegible] Host [illegible] H `dev:web` [illegible] `dsh.client` [illegible] Clie `lib/client.js` [illegible] Host decorator[illegible] Remote

[illegible] Remote [illegible] Typert [illegible] decorator[illegible] namespace[illegible] lookup[illegible] Context [illegible]

```
pnpm run build:lib
```

[illegible] Client watch `pnpm run build:lib:host` [illegible] Hos `pnpm run build:lib:client` [illegible] Client [illegible] Host [illegible]
`pnpm run typecheck` [illegible] Host lib [illegible] Client tsc[illegible] CI [illegible]

[illegible]

Remote [illegible] reduce[illegible] projection [illegible] Connection[illegible]

API [illegible] `remotes → gateway → connection → webserver` [illegible] BFF [illegible] Typert R `packages/api` [illegible] Connection [illegible] WebServe
`packages/client/connection` [illegible] `packages/host/webserver` [illegible] Connection Fetch [illegible] Remo

lookup [illegible] ke `agent` [illegible] `session` [illegible] live [illegible] endpoint [illegible]

[illegible] #1
[illegible] 3 [illegible] 2026 17:08:27
[illegible] 3 [illegible] 2026 17:36:27