

FOUNDATIONAL CHAPTER

117-275-D Cognitive Rendezvous Management

A Federated Architecture for Stabilizing Cognitive Coupling

Rendezvous Management governs whether cognitive influence is dynamically fit to couple now and whether that coupling remains stable as cognition continues to move.

V2 Reconstruction by Stability Engineering Institute

GUDIYA Canon | September 2026

The consolidated finding

Rendezvous Management began as a response to a narrow but consequential problem. Two autonomous actants may be individually reliable, authenticated, authorized and technically compatible while remaining dynamically unfit to interact. Their intents may have diverged, their state may refer to different moments, or one may be changing faster than the other can observe. A successful connection can therefore create an unstable coupling.

The original theory focused on visible communication such as an API call. Subsequent work enlarged the engineering object. Cognitive influence can also pass through a queue, database, memory, file, human, market price, shared resource or physical environment. The originating actant and the affected actant may never communicate and may not exist at the same time. The rendezvous occurs when the influence becomes consequential.

The Grid must manage not only who communicates with whom but how influence moves through the Cognitive Field.

The V2 conclusion

Rendezvous Management is a universal Grid function with federated execution. It resolves a stability-relevant participant or artifact, establishes the governing authority, evaluates dynamic fitness to couple, maintains the relationship inside a coupling envelope and performs breakaway when the envelope collapses. Pairwise rendezvous remains subordinate to field stability because individually acceptable relationships can still form an unstable network.

Transaction Management as an Early Rendezvous Analogy

Relational database commit-and-rollback provides a limited early analogy for Rendezvous Management: a transaction creates a protected coupling envelope, allows provisional interaction, commits when predefined consistency conditions are satisfied, and rolls back when they are not. In this narrow sense, the transaction manager acts as a primitive stabilizer.

The analogy ends at the database boundary—GUDIYA must stabilize changing actants, intentions, authority, timing and implicit couplings in environments where the previous state may not be recoverable.

Midair refueling is a physical rendezvous between two independently moving aircraft. They do not merely “connect.” They must enter a common operating envelope, establish a controlled relative position, remain synchronized while fuel and aircraft mass are changing, and separate safely. Importantly, synchronization does not mean identical absolute states; it means maintaining the prescribed relative states required for a stable coupling.

Stability envelope	Parameters that must be coordinated
Identity and compatibility	Correct tanker and receiver; compatible boom/receptacle or probe/drogue systems; approved fuel and transfer configuration
Space	Rendezvous point, refueling track, altitude block, lateral separation and relative vertical position
Time	Rendezvous time, arrival sequence, holding time and contact window
Motion	Heading, airspeed, closure rate, acceleration and relative velocity
Formation geometry	Observation, pre-contact and contact positions; longitudinal, lateral and vertical displacement
Aircraft attitude	Pitch, roll, yaw, bank angle, trim and station-keeping stability
Aerodynamic environment	Tanker wake, bow wave, turbulence, weather, visibility and available receiver thrust
Communications	Call signs, radio frequency, clearances, procedural calls, visual signals and acknowledgment
Connection state	Boom or probe alignment, coupling confirmation and remaining within the equipment’s operating envelope
Fuel transfer	Fuel pressure, flow rate, requested quantity, tank sequence, transfer status and termination point
Changing aircraft state	Gross weight, center of gravity, trim, inertia and performance as fuel moves between aircraft
Observation and correction	Continuous monitoring by both crews and the boom operator, with timely correction of developing deviations
Disconnect and breakaway	Normal separation sequence, emergency breakaway criteria, escape direction and lost-communication procedures

A receiver therefore approaches slowly from a stabilized pre-contact position, enters a tightly defined contact envelope and must remain within it throughout transfer; dangerous displacement can require an immediate disconnect or breakaway. Official procedures emphasize controlled closure, stable contact position, prescribed altitude blocks and explicit breakaway procedures. [U.S. Air Force KC-135 manual](#), [FAA aerial-refueling procedures](#). The parallel to cognitive rendezvous is exact in principle: connection is permitted only after compatibility and relative motion have been aligned; stability must then be continuously maintained as both participants change; and a safe breakaway must remain possible throughout. The handshake initiates the rendezvous—the stability envelope makes it survivable.

Rendezvous Management may be understood as a generic, stateful handshake-and-stabilization protocol among cognitively dynamic components. Just like in midair refueling, it persists. It continuously determines whether actants may couple, remain coupled and safely separate as their states, intentions, membership and operating environment change. The resulting stability envelope protects not only the participating actants but also the wider Cognitive Field.

Stability envelope	What Rendezvous Management governs
Identity and lineage	Who is participating and whether its identity, ownership and history remain valid
Authority and permissions	What each actant may request, disclose, delegate, modify or execute
Intent and mission	Whether objectives are declared, compatible and within the approved plan
Membership and topology	Which actants may join, leave, be replaced or form new connections
Semantic compatibility	Whether exchanged information and instructions have sufficiently consistent meanings
Time and cognitive velocity	Whether observation, reasoning and response rates remain mutually manageable
State and memory	Whether participants possess compatible context, assumptions and persistent state
Uncertainty and confidence	How ambiguity, missing information and conflicting evidence are handled
Coupling, gain and recursion	Whether interactions could amplify error, oscillate or create runaway feedback
Concurrency and resources	How simultaneous actions and competition for shared capacity are reconciled
Observability	Whether the rendezvous can be independently sampled fast enough to detect instability
Persistence and recovery	What survives the interaction and how participants pause, break away, roll back or quarantine
Field-level effects	Whether a locally acceptable interaction could destabilize the larger collective

A conventional handshake asks, “Can these components communicate?” Rendezvous Management asks, “Can these cognitively dynamic actants couple, evolve and separate without destabilizing themselves, one another or the wider Cognitive Field?”

The engineering object

Traditional integration engineering concentrates on reachability, identity, authorization, schema, latency and availability. These properties determine whether two systems can exchange information. Rendezvous Management addresses a different question: whether the resulting cognitive influence can be admitted without creating unacceptable instability.

Layer	Question	Typical mechanism
Transport	Can information reach the destination	IP, HTTP, messaging, radio or physical carriage
Security	Is the participant permitted and trusted for this action	Identity, authentication, authorization and Zero Trust
Rendezvous	Are the participants dynamically fit to couple now	CCS state, intent, phase, velocity and coupling envelope
Field stability	What will this coupling do to the larger system	Grid observation, prediction, capacity and intervention

These layers complement one another. A secure interaction may be dynamically unstable. A stable pair may still contribute to an unstable feedback loop. Rendezvous Management therefore belongs above transport and alongside security, while remaining accountable to the field-level stabilizer.

Canonical definition

Rendezvous Management is the Grid function that establishes and continuously maintains sufficient compatibility of identity, authority, intent, orientation, timing, phase and relative cognitive motion for a consequential coupling to remain inside its approved stability envelope.

Why stable actants do not guarantee stable coupling

Air-to-air refueling provides the foundational analogy. A tanker and receiver may both be airworthy and flying safely. The transfer remains unsafe until relative position, orientation and closure rate enter a narrow envelope. Absolute speed is less important than controlled relative motion during the coupling.

The same relation appears in agentic systems. A fast research agent can work safely with a slower enterprise application if the interface paces and validates the transfer. Two individually safe agents can become unstable if one continues replanning while the other executes an earlier instruction. Component assurance does not compose automatically into relationship assurance.

Individual condition	Relationship failure that can still occur
Both agents are authenticated	The authorized intent has expired or changed
Both outputs are correct	They describe incompatible moments or assumptions
Both systems are available	Retry behavior creates load and oscillation
Both remain within local limits	Their interaction exceeds a shared resource or field margin
Both supervisors approve	The supervisors share the same blind spot or cognitive lineage

Coupling stability is a property of the relationship over time, not merely a property of its participants.

Relative cognitive motion

The Cognitive Coordinate System supplies the external reference required to reason about motion between actants. The quantities below are conceptual engineering variables. Their operational definitions and units remain a research task, but the distinctions already improve diagnosis and control.

Variable	Interpretation	Stability use
Relative position	Difference between current cognitive states or orientations	Determines whether the participants occupy compatible regions
Relative velocity	Rate at which their cognitive states are separating or converging	Estimates the burden of maintaining coherence
Relative acceleration	Rate at which the velocity mismatch is changing	Warns that an accepted coupling may deteriorate quickly
Cognitive Closure Rate	Rate of change of cognitive distance	Supports approach, hold and breakaway decisions
Intent Shear	Divergence between the intent that created an action and current intent	Detects faithfully executed obsolete cognition
Cognitive Temporal Coherence	Compatibility of the times represented by combined inputs	Prevents a worldview assembled from mutually inconsistent moments

Different cognitive speeds are not inherently unsafe. Heterogeneity is a source of capability. The Grid performs cognitive impedance matching so fast and slow participants can interact without forcing either to adopt the other's operating rate.

Latency acquires a stability meaning

Conventional monitoring reports elapsed time. Rendezvous Management asks what changed during that time. A five-second delay may be harmless in a stable workflow and dangerous when an autonomous controller completes many reasoning and actuation cycles before the response arrives.

Metric	Conceptual expression	Meaning
Cognitive Latency Distance	CLD = accumulated cognitive motion during a live transaction	How far relevant cognition moved while a request was in flight
Cognitive Persistence Distance	CPD = distance between creation context and consumption context	How far the field moved while cognition was stored
Intent Shear	IS = distance between originating and current intent	Whether the reason for an instruction still exists
Authority Drift	Difference between creation authority and current authority	Whether an artifact remains actionable now

These are not yet standardized measurements. Their value is to prevent a common category error: treating time as a neutral delay. In a machine-speed HCAS, time changes the relationship because agents continue observing, reasoning, delegating and acting while messages or artifacts wait.

Age is not staleness. Staleness depends on how far the relevant Cognitive Field moved.

Cognitive influence is the true object

A direct message is only one carrier of cognitive influence. The broader theory recognizes three recurring forms of coupling and treats each consumption or actuation point as a potential rendezvous.

THE RENDEZVOUS PROBLEM EXTENDS BEYOND MESSAGES

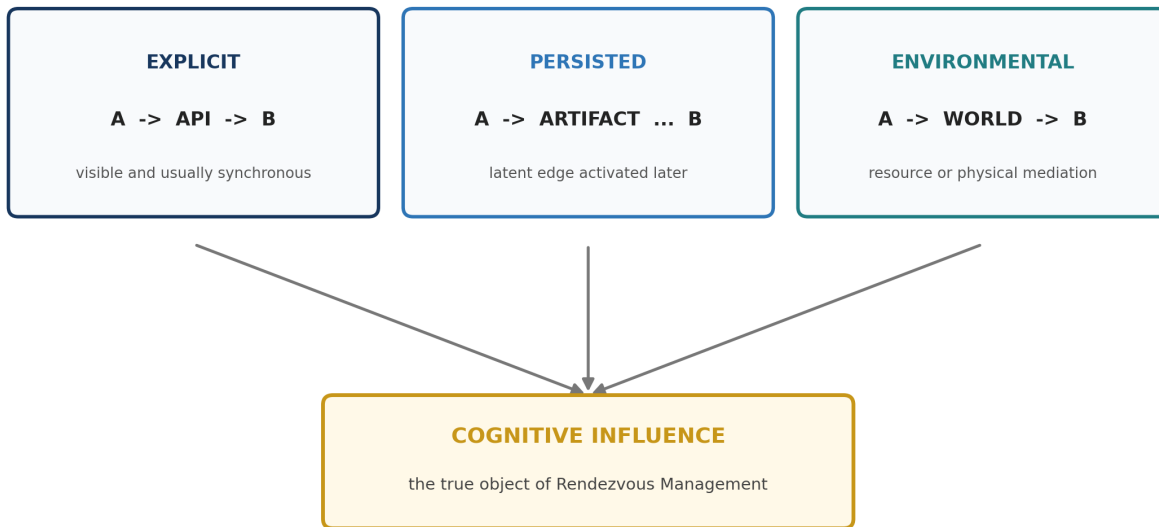


Figure 1 Explicit communication is only one form of cognitive influence

This wider scope prevents the Grid from confusing the visible communication graph with the causal system. A database record, queue entry, physical configuration or price can carry influence even when no participant declares a relationship.

Explicit and implicit coupling

Coupling class	Representative path	Rendezvous moment
Live explicit	Agent A -> API -> Agent B	Before and throughout the active exchange
Mediated explicit	Agent A -> event bus -> many subscribers	At publication, fan-out and each consequential consumption
Persisted asynchronous	Agent A -> queue or file -> future Agent B	When persisted cognition is consumed or actuated
Human mediated	Agent A -> dashboard -> person -> operational system	When the person or downstream system converts information into action
Environmental	Agent A -> robot -> physical state -> sensor -> Agent B	When the changed environment alters later cognition
Resource mediated	Agent A -> shared capacity or price -> Agent B	When changed availability or price modifies behavior

Implicit coupling is not an anomaly to eliminate. It enables markets, organizations, science and adaptive coordination. The engineering objective is to preserve constructive emergence while making consequential influence observable, attributable and recoverable.

No communication does not mean no coupling.

Persistence creates dormant edges

When an actant writes an instruction, plan, memory or state and then disappears, the originating vertex may be gone while its capacity to influence remains. The artifact is a dormant edge in the Cognitive Field. A later consumer activates that edge and completes an asynchronous rendezvous across time.

This interpretation joins several GUDIYA concepts. Orphan Cognition is the influence left behind after the originator terminates. Cognitive Residue is historical state that continues shaping present behavior. A Persistent Objective can survive as a distributed pattern across tasks, memories, prompts, artifacts, subagents and physical changes rather than as one continuously running agent.

Persisted object	Latent stability question
Queue entry	Does the originating intent still authorize execution
Database record	Has the field changed enough to require reinterpretation
Memory fragment	Is its lineage and original context visible to the new agent
Vector retrieval	Does current retrieval make old cognition appear falsely current
Delegated task	Did the delegator retain authority and responsibility
Physical configuration	Can later observers identify who created the condition and why

The Grid should therefore inventory surviving latent couplings when an actant, workflow or team terminates. Process termination alone does not end the stability history.

The Cognitive Shadow Topology

Enterprise diagrams represent declared interfaces and designed workflows. A Complex Adaptive System develops an additional topology through persistent state, shared resources, human mediation, environmental change and repeated indirect influence. GUDIYA calls this evolving causal network the Cognitive Shadow Topology.

Visible topology	Shadow topology
API calls and declared event routes	Influence through state, price, capacity and environment
Known workflow membership	Transient teams assembled by runtime context
Named producers and consumers	Unknown future consumers of persistent artifacts
Designed feedback paths	Loops assembled across heterogeneous media
Current active connections	Dormant edges capable of later activation

The Shadow Topology explains why interface-level observability can report healthy systems while a cross-medium feedback circuit amplifies beneath it. Stability Engineering must reconstruct causality, not merely traffic. The operational question becomes who influenced what, through which carrier, under what intent and authority, and with what downstream effect.

Engineers design the visible topology. The operating population creates the shadow topology.

The cognitive rendezvous stack

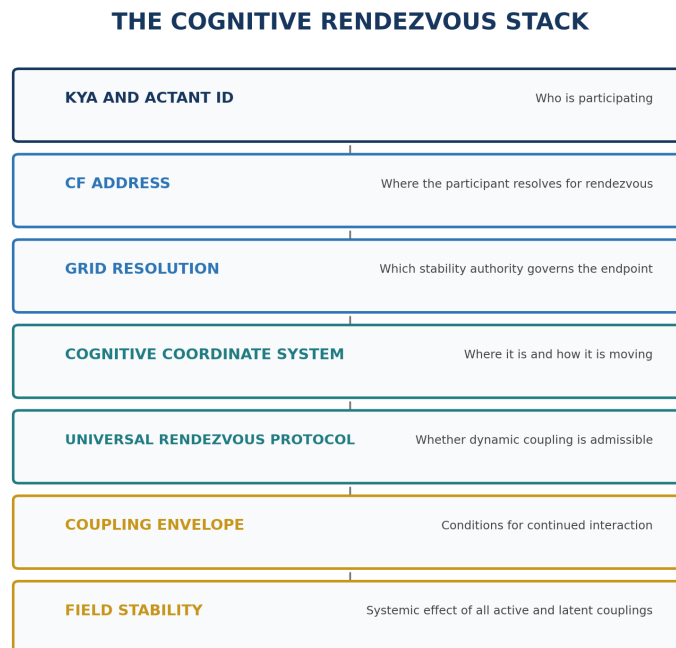


Figure 2 Identity address orientation rendezvous and field stability solve different problems

The separation matters. Actant-ID should persist when an actant moves. CF-Address resolves the participant to a governing stability authority. CCS describes dynamic position and motion. URP evaluates whether the proposed influence can be admitted. The coupling envelope governs continuation. The Grid finally evaluates the systemic effect of many simultaneous relationships.

The Universal Rendezvous Protocol

The Universal Rendezvous Protocol is the proposed minimum stability vocabulary for consequential cognitive influence crossing a Grid-relevant boundary. URP does not replace TCP, HTTP, queues, databases, radio links or proprietary buses. It operates above the carrier and remains transport independent.

URP object	Question answered
Actant-ID and KYA record	Who is participating and what identity lineage is authoritative
CF-Address	Where can the participant or artifact be resolved for rendezvous
CCS state	Where is it dynamically and how is it moving relative to the field
Intent lineage	Which objective created the influence and does it remain active
Authority	What may the participant or artifact cause now
Cognitive Envelope	Where may the actant or group operate
Stability contract	Under what conditions may the coupling begin and continue
Gudiya-cookie	What provenance and stability history travel with the cognition

URP is universal in semantics rather than policy. A medical Grid, military Grid, research Grid and financial Grid may apply different thresholds while still exchanging enough common information to evaluate a cross-domain rendezvous.

The rendezvous lifecycle

Rendezvous is a maintained state rather than a one-time handshake. A relationship can be acceptable at admission and unsafe milliseconds later because intent, authority, phase, velocity, topology or field capacity changed.

Stage	Grid responsibility	Possible result
Discover	Identify the participant, artifact or governing Grid	Resolvable, unknown or quarantined
Orient	Obtain CCS state, intent, authority and relevant provenance	Sufficient or insufficient reference
Predict	Estimate closure, interaction gain, downstream fan-out and capacity demand	Inside, near or outside envelope
Authorize	Create a risk-graded stability contract	Permit, constrain, delay or reject
Maintain	Observe drift and keep the active coupling inside limits	Continue, pace, revalidate or damp
Break away	Separate before loss of recoverability	Pause, isolate, revoke or disconnect
Account	Record outcomes, residue, surviving tasks and latent edges	GESR update and future requalification

Every consequential coupling needs a safe exit. Breakaway is therefore a normal protocol state, not an admission that the system failed. The Grid may preserve work for later resumption while preventing an unstable relationship from continuing to propagate.

The stabilization control set

The Grid does not need to understand every semantic detail to stabilize a relationship. It can act on observable dynamics, authority, timing, provenance and envelope state. The appropriate intervention depends on consequence and reversibility.

Control	Purpose	Illustrative trigger
Pace	Reduce effective interaction or reasoning rate	Receiver cannot remain coherent with caller velocity
Buffer	Absorb a temporary mismatch without losing lineage	Short capacity or timing disturbance
Collapse	Remove redundant retries or duplicate requests	Repeated actions represent the same unresolved intent
Revalidate	Confirm intent, authority or current context	CLD, CPD or authority drift exceeds threshold
Sequence	Prevent unsafe concurrency	Multiple individually valid actions conflict collectively
Damp	Reduce gain or add temporal spacing	Feedback or hunting begins to amplify
Restrict	Narrow tools, authority or envelope	Risk rises while useful work can continue safely
Break away	Terminate or quarantine the coupling	Stability margin or recoverability collapses

This control set turns the Grid-aligned gateway into a Cognitive Docking System. Its specialty is the relationship. It does not perform either participant's cognition; it creates the conditions under which unlike cognition can meet safely.

CF Addressing and federated resolution

A federation cannot stabilize a participant it cannot resolve. The CF-Address is a logical rendezvous address that identifies where a stability-relevant actant, artifact, service or group can be presented to the appropriate Grid authority. It is not an IP address, an identity or a CCS coordinate.

Identifier	Primary question	Expected behavior
Actant-ID	Who are you	Persists across hosts, models, transports and Grid domains
CF-Address	Where can the Field establish a governed rendezvous	Resolves through the federation to the current authority
CCS state	Where are you dynamically and how are you moving	Changes continuously with cognitive state and relationships
Network address	Where should packets or frames go	Changes with transport and infrastructure attachment

The address may resolve first to a Grid authority rather than expose an underlying network location. This stability-preserving indirection permits identity, jurisdiction, privacy, authority and dynamic fitness to be evaluated before transport reachability becomes available.

IP tells information where to go. CF-Address tells cognition where to rendezvous.

Universal function and federated execution

Universal Rendezvous Management does not require one global controller. Routine stabilization should occur as close to the coupling as possible. Higher levels become involved only when influence crosses control domains, consumes shared capacity or contributes to systemic behavior.

Level	Typical scope	Primary responsibility
Local Grid element	One endpoint, gateway, machine or Sync Zone	Fast envelope checks, pacing, provenance and breakaway
Enterprise or domain Grid	One organization or regulated sector	Policy, shared capacity, topology and cross-application effects
National or sovereign Grid	Cross-sector and jurisdictional stability	Critical infrastructure, sovereign constraints and systemic reserve
Federated interface	Interaction between independent Grid authorities	Resolution, minimum disclosure, negotiation and cross-Grid contracts

The doctrine is local first and federated always. Federation is available when required, but activity is not escalated merely because a universal protocol exists. This design limits latency, privacy exposure, central dependency and political concentration while preserving interoperability.

Minimum necessary stability disclosure

A Grid should reveal only the assertions needed to establish a safe relationship: responsible authority, applicable envelope, provenance, current stability status and admissibility. Global resolvability should not become global semantic surveillance.

Cognitive roaming and sovereign autonomy

An actant may move from a private enterprise Grid to a public Grid and later enter another enterprise or national domain. Its identity can persist while its CF-Address resolution, CCS state, authority and local envelope change. A receiving Grid needs enough verified continuity to establish a new relationship without blindly inheriting every assertion from the prior domain.

Roaming element	Why it travels or must be reestablished
Persistent identity and lineage	Prevents migration or model replacement from erasing responsibility
Current CF-Address resolution	Locates the receiving stability authority
Intent and authority envelope	Defines what objectives and actions remain valid
CCS orientation	Establishes local position, motion and phase
Gudiya-cookie provenance	Summarizes the origin and stability history of carried cognition
Stability contract	States the conditions accepted by the receiving Grid

Federation is not blind trust. The receiving Grid may accept, constrain, revalidate, sandbox, delay or reject the presented assertions. A universal protocol creates a common vocabulary; it does not impose one universal policy.

One Cognitive Field can support many independent stability authorities.

Pairwise stability remains subordinate to field stability

A population can contain only locally acceptable interactions and still become unstable. Several approved couplings may close a loop, synchronize around a false premise, exhaust common capacity or amplify the same disturbance. The Grid must therefore evaluate relationships at several nested levels.

Level	Stability question	Failure example
Actant	Is this participant operating inside its own envelope	Unbounded authority or uncontrolled recursion
Rendezvous	Can these participants or artifacts couple now	Intent shear or temporal incoherence
Transient team	Can the current membership coordinate safely	Role conflict, topology churn or common blind spot
Coupling network	Do combined relationships form unstable loops or density	Retry storm, oscillation or cascade
Cognitive Field	Does the whole system retain margin and recoverability	Systemic congestion, drift or S4 collapse

This hierarchy explains the orchestration-to-stabilization transition. A workflow can coordinate intended activity. A large interoperable population becomes a different engineering object because its runtime relationships create state and behavior not contained in any single workflow.

Stable rendezvous is necessary for field stability but it is not sufficient.

Observation and the Cognitive Nyquist requirement

Rendezvous Management depends on an external observer that can resolve consequential changes before they alias into a misleading picture of stability. If interaction, topology or intent changes faster than the Grid can sample and reconstruct them, the Grid may miss oscillation, fan-out or closure-rate growth between observations.

Observation need	Why it matters
Coupling-specific sampling rate	Different relationships generate stability-relevant change at different speeds
Independent external reference	Participants inside the same cognitive frame can share the same blind spot
Dynamic causal graph	Traffic logs do not reveal influence through artifacts, people or environment
Lineage and time stamps	Persisted cognition must retain creation context and later consumption context
Field-wide capacity view	Local approvals can collectively exhaust stabilization reserve
Prediction and intervention latency	Observation that arrives after propagation cannot prevent the cascade

The required rate is not a single universal frequency. It depends on the fastest stability-relevant dynamics of the coupling under observation and the delay of the control path. This requirement applies to the Grid itself: a stabilizer that cannot observe and intervene fast enough is not stable-worthy for that operating regime.

Operational examples

Domain	Rendezvous problem	Grid response
Enterprise procurement	A purchase request remains valid technically after the production plan changes	Revalidate intent before actuation and collapse obsolete retries
Agent memory	A successor agent treats inherited reasoning as current and authoritative	Carry provenance and compare persistence distance at consumption
Financial market	Autonomous traders couple through price and liquidity without direct communication	Observe feedback gain, shared capacity and cross-agent amplification
Robotics	One robot changes an environment later sensed by another	Treat the physical state as a carrier of consequential cognition
CCA and MMA fleet	Aircraft join and leave transient mission teams across command and communication domains	Maintain CF resolution, team-relative state, graded authority and breakaway

Domain	Rendezvous problem	Grid response
Scientific discovery	Agents combine papers, tools and prior outputs created under different assumptions	Preserve lineage, temporal coherence and epistemic diversity

These examples differ in substrate and consequence, but the engineering question is stable across them. When influence reaches a new actant or operational context, is it still fit to couple, and what will the resulting relationship do to the surrounding population?

Risk graded scrutiny

A harmless query should not incur the same overhead as physical actuation, medical treatment, military engagement or high-value settlement. URP should scale its evidence, sampling, prediction and authorization burden with authority, gain, reversibility, coupling complexity and potential consequence.

Engineering adoption path

Maturity stage	Capability	Evidence of readiness
One	Inventory explicit actants, interfaces, authority and latency	Known participants and declared coupling graph
Two	Attach identity, lineage, timestamps and intent to consequential cognition	Gudiya-cookie continuity across APIs and persistence
Three	Measure relative motion and define coupling envelopes	CLD, CPD, intent shear and temporal coherence thresholds
Four	Operate local automated stabilization controls	Pacing, revalidation, sequencing, damping and breakaway
Five	Reconstruct active and latent causal topology	Shadow Topology and surviving-edge inventory
Six	Federate CF-Address resolution and Grid contracts	Cross-domain roaming with sovereign policy retained
Seven	Manage population and field stability continuously	Reserve margin, cross-loop detection and systemic intervention

Organizations need not implement the full global architecture to begin. The first practical step is to stop treating every successful transaction as a stable interaction. Instrument intent freshness, authority continuity, retry amplification, persistent artifacts and downstream fan-out while the population is still small.

Stable Worthiness

Stable-Worthiness should apply to an actant, coupling, team or Grid configuration in a defined operating context. It can expire when models, tools, memory, permissions, membership, interaction rate, environment or consequence change. Certification therefore becomes a maintained operational claim rather than a permanent label.

Research agenda and falsifiable propositions

The architecture is a systems theory and research program, not a completed protocol standard. Its strongest claims should be tested through controlled experiments, simulations and instrumented deployments.

Proposition	Observable test
Relative cognitive motion predicts coupling failure better than latency alone	Compare failure rates using latency-only and CLD or intent-shear models
Persisted artifacts function as latent causal edges	Trace whether later behavior is predicted by artifact lineage and CPD
Declared topology understates consequential coupling	Compare workflow graphs with reconstructed causal graphs during incidents
Local pairwise approval cannot guarantee field stability	Construct networks of acceptable edges that still oscillate or cascade
External reference diversity reduces shared supervisory blind spots	Compare homogeneous and independently referenced supervision teams
Risk-graded local stabilization scales better than central approval	Measure latency, coverage and failure containment under both architectures

Important unknowns include the operational dimensions of CCS, units for Cognitive Velocity, thresholds for CLD and CPD, the minimum viable Gudiya-cookie, privacy-preserving causal reconstruction, protocol overhead, adversarial manipulation of provenance, Grid capacity limits and the conditions under which breakaway itself creates instability.

Canonical findings

Finding	Canonical formulation
Relationship stability	Individually stable actants do not automatically form a stable coupling
Influence scope	Every consequential transfer of cognitive influence creates a potential rendezvous
Implicit coupling	No direct communication does not mean no coupling
Persistence	A consequential cognitive artifact is a dormant edge until a later consumer activates it
Topology	Communication topology is only a subset of cognitive causal topology
Time	Intent and authority must remain valid at actuation, not only at creation
Addressing	CF-Address resolves cognition to a governed rendezvous point rather than a packet destination
Federation	Rendezvous semantics can be universal while execution and policy remain local and sovereign
Maintenance	Authorization begins a rendezvous but continuous observation keeps it stable
Breakaway	Safe separation is a first-class protocol capability
Hierarchy	Pairwise stability is necessary but subordinate to team, network and field stability

Together these findings redefine integration for an AI-powered world. Systems no longer exchange only messages between relatively stationary endpoints. Cognition moves among actants, artifacts, environments and jurisdictions while the participants themselves continue changing. The interface becomes a dynamic system and requires its own stability engineering.

Conclusion

Rendezvous Management began with a simple instruction: match the motion before making the connection. The V2 reconstruction preserves that insight and enlarges its scope. A connection may be live or delayed, visible or implicit, digital or physical, local or sovereign. The common event is the arrival of consequential cognitive influence in a new context.

The GUDIYA Grid must resolve who or what is participating, identify the responsible stability authority, establish field-relative orientation, evaluate intent and authority, predict the effect of coupling, maintain the relationship inside an approved envelope and separate it safely when conditions deteriorate. It must also observe the Shadow Topology and determine whether many locally acceptable relationships are collectively compressing field stability.

Address the participant. Resolve the Grid. Orient the cognition. Stabilize the rendezvous. Protect the Field.

This is the transition from API management to cognitive coupling management. It is also the practical bridge between component assurance and population-scale Stability Engineering. As AI Teamwork becomes dynamic, transient and omnipresent, Rendezvous Management becomes one of the Grid's foundational services.

V2 reconstruction scope

This chapter consolidates and supersedes the three source chapters Rendezvous Management by GUDIYA Grid, Rendezvous Management for Implicit Coupling, and Rendezvous Management Is a Federated Universal Protocol. It preserves their distinct discoveries while integrating later GUDIYA concepts including transient AI Teamwork, external reference, Cognitive Nyquist, Persistent Actant Stability, Stable-Worthiness and the orchestration-to-stabilization transition.

COGNITIVE RENDEZVOUS MANAGEMENT

Actants in Motion in the Cognitive Field

