PSHMP Core v3.0 — Sale Package Overview

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PSHMP Core v3.0

Intelligent Platform for Network Infrastructure Resilience

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What is PSHMP Core

PSHMP Core v3.0 is an intelligent software platform that operates on top of existing IP infrastructure (Overlay Network), designed to enhance the resilience, efficiency, and scalability of modern distributed networks.

The platform continuously analyzes network state, predicts connection degradation, and automatically restores data transmission routes before the problem becomes noticeable to users or business applications.

PSHMP Core integrates on top of existing network infrastructure and does not require replacement of routers, switches, or changes to network architecture.

Who is the Platform For

PSHMP Core is designed for organizations where service continuity and high network availability are critically important.

Key application areas:

- Telecommunications and network operators
- Enterprise distributed networks
- Smart City and government information systems
- Edge Computing and CDN
- Industrial networks and Industrial IoT

- Transportation infrastructure
- Energy systems
- Data centers and cloud platforms

Real Business Impact

Using PSHMP Core provides measurable advantages without upgrading existing infrastructure.

Platform Capability	Practical Impact
Automatic connection recovery	Reduced service downtime and fewer failures
Network degradation prediction	Prevention of failures before critical consequences occur
Reduced control traffic	More efficient use of communication channels and lower OPEX
Works on existing infrastructure	Minimized capital expenditures (CAPEX)
Horizontal scaling	Network growth without architecture changes
Network self-healing	Reduced load on operations teams

As a result, the organization achieves:

- Reduced operational costs
- Increased digital service availability
- Extended lifespan of existing equipment
- Reduced financial losses from downtime
- Improved service quality and compliance with strict SLAs

Key Platform Advantages

- Operates on top of existing IP infrastructure (Overlay Network)
- No equipment replacement required
- Automatically predicts network degradation and restores data transmission routes
- Reduces control traffic volume
- Supports horizontal scaling
- Built on modular architecture, ready for integration with existing systems
- Supports Self-Healing, High Availability, and distributed management mechanisms

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Verified Test Results

Metric	Result	Test Conditions
Scalability	Stable core operation on a model of 5,000 simultaneously emulated nodes	Testing conducted using a proprietary distributed network emulator
Data Delivery	100% delivery at up to 25% packet loss	Using PSHMP Core recovery mechanisms in the emulated network
Recovery Time	~380 ms	Average automatic route recovery time
Control Traffic	Reduction up to 75%	Compared to traditional delivery acknowledgment mechanisms
Stability Coefficient	K-Factor up to 0.999	Comprehensive connection quality assessment

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Platform Architectural Capabilities

PSHMP Core is built on a modular principle and includes key components of a modern resilient network platform.

Current version includes:

- Intelligent Self-Healing core
- Connection stability assessment system (K-Factor)
- Adaptive routing
- Dynamic transmission chain recovery mechanism
- Coordinator with High Availability support
- Distributed state replication
- Raft-based clustering
- etcd support
- DHT Fallback
- Rate Limiting
- DDoS protection
- Platform licensing
- Health Check and monitoring
- Docker and Docker Compose
- Cyber Dashboard
- Distributed network modeling and testing tools

The platform architecture supports further horizontal scaling and functionality development without changing its core operating principles.

Engineering Knowledge Base

PSHMP Core is the result of extensive research and engineering development.

The transfer package includes over 100 technical documents reflecting the platform's evolution—from initial architectural decisions to the current version.

Documentation includes:

- Platform architecture description
- Network core algorithms
- Research findings
- Implementation options for individual components
- Module and internal mechanism descriptions
- Architectural changes between versions
- Test and validation results
- Design decisions and engineering justifications

This volume of materials allows not only using the ready-made solution but also understanding the logic of its development, which significantly simplifies further support, adaptation, and platform evolution.

Transfer Package Composition

Component	Content
Source Code	Full PSHMP Core v3.0 source code in Go
Engineering Knowledge Base	Over 100 technical documents
Architecture Documentation	Complete platform architecture description
Scaling Documentation	High Availability, Raft, clustering, fault tolerance, scaling
Demonstration Suite	Distributed network emulator, test scenarios, and validation results
Cyber Dashboard	Network state visualization system
Intellectual Property Materials	Patent materials (in accordance with transaction terms)
Consulting Support	Transfer of accumulated expertise and implementation assistance

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Available Cooperation Formats

Pilot Project

Deployment of the platform in the customer's infrastructure with joint effectiveness assessment.

Commercial License

Provision of platform usage rights.

Exclusive Rights Transfer

Full transfer of source code, documentation, intellectual property, and development results.

Next Steps

1. Sign NDA
2. Platform capabilities demonstration
3. Transfer of extended documentation package
4. Joint technical assessment
5. Pilot project preparation
6. Contract signing

Contact Information

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Intelligent Platform for Network Infrastructure Resilience

PSHMP Core helps organizations improve digital service availability, reduce operational costs, and maximize the use of existing network infrastructure without complete modernization.