

SIGVORA

MARITIME

Trusted Digital Credential Verification for Yacht Crew & Maritime Operations

Complete Platform Overview, Operating Model, Verification Workflows and Commercial Architecture

BUSINESS OVERVIEW • AUGUST 2026

Prepared for external presentation to yacht management companies, captains, crew agencies, STCW schools, maritime doctors, professional partners and potential investors.

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IMPORTANT POSITIONING

SIGVORA Maritime is designed as a trusted digital verification and access layer for professional maritime credentials. It does not replace original certificates, issuing authorities, medical examiners, training providers or statutory obligations. It structures verified evidence and makes that evidence securely reusable for authorized maritime operations.

1. Executive Summary

A concise explanation of what SIGVORA Maritime is and why it exists.

SIGVORA Maritime is a specialized digital trust and verification platform for yacht crew credentials and professional maritime documents. It creates a structured digital crew record, connects individual documents to independent verification by trusted partners, and allows verified information to be securely reused by captains, crew agencies and yacht-management companies.

The operational objective is straightforward: a crew member should not need to rebuild the same document package every time a captain, agency or management company asks for proof. Instead, SIGVORA Maritime is designed to maintain one controlled, updateable record containing the relevant evidence, verification status and document history.

The platform therefore sits between the crew member, the verifying institution and the authorized maritime recipient. Its role is to make professional credentials easier to verify, safer to share and more useful across repeated employment and operational checks.

Core value proposition

- One structured digital record for each crew member and their professional credentials.
- Independent verification by appropriate maritime partners rather than self-declared status.
- Controlled, time-limited access to sensitive documents and supporting evidence.
- Verified credential status that can be reused across authorized operational relationships.
- Fast physical-to-digital access through NFC where appropriate.
- A partner model connecting crew, captains, medical examiners, STCW schools, agencies and yacht-management companies.

IN ONE SENTENCE

SIGVORA Maritime turns fragmented crew documentation into a structured, independently verified and securely reusable digital professional record.

2. What SIGVORA Maritime Is

SIGVORA Maritime applies SIGVORA's core trust architecture specifically to professional maritime credentials. It is not intended to be another folder of uploaded scans. The platform combines structured crew records, independent verification, permissioned access and lifecycle history so that a document check can become a reusable trust event rather than a one-time administrative task.

Capability	Status	Meaning
Crew / document record layer	Prototype / implemented	The core platform can create structured records, attach photos and files, and separate access by user role.
Independent verification workflow	Prototype / implemented	Verification requests can be submitted and handled through a dedicated examiner / verifier role.
Controlled sharing	Prototype / implemented	Protected, time-limited access and share-token / PDF mechanisms exist in the prototype.
Maritime credential structure	Defined / in development	The maritime use case is defined around ENG1 or accepted medical documents, STCW certificates, licences, endorsements, references and identity-related documentation.
NFC linkage	Defined / in development	NFC is intended to provide fast permissioned access to verified crew information in operational settings.
Institutional partner network	Commercialization phase	The partner model includes maritime doctors, STCW schools, captains, crew agencies and yacht-management companies.
Enterprise dashboards / APIs	Roadmap	Scaled partner interfaces and integrations are intended for later phases.

EXTERNAL COMMUNICATION RULE

SIGVORA Maritime should currently be presented as a working prototype with a defined maritime expansion and commercialization architecture. Roadmap features should not be described as fully live production services.

3. The Maritime Problem SIGVORA Solves

3.1 Crew documentation is fragmented

Crew members typically manage multiple professional documents, including medical certificates, STCW training records, licences, endorsements, identity-related documentation and references. These materials are often stored and exchanged as scans, PDFs, screenshots or email attachments rather than as one structured verified record.

3.2 Captains and management companies repeat the same checks

Captains, crew agencies and yacht-management companies repeatedly need to determine whether documents are genuine, current and sufficient for the intended role or vessel. When the evidence is fragmented, the same verification work can be repeated by multiple parties.

3.3 A scan does not communicate verification history

A copied certificate can show what a document looks like, but it does not by itself show who checked it, when it was checked, whether the review is still current or how the record has changed over time.

3.4 Verification is disconnected from operational access

Even when a credential has already been checked by a trusted party, that result may remain isolated in an email, database or report. SIGVORA Maritime is designed to connect the verification result directly to the crew member's controlled professional record so it can be reused by authorized recipients.

SIGVORA MARITIME RESPONSE

Create the crew record once, attach evidence, verify through appropriate trusted partners, control who can see it, and preserve the verification history as the record is updated.

4. Trust & Verification Architecture

SIGVORA Maritime separates the person who supplies the documentation from the party that verifies it and the recipient who relies on the result. This separation is central to the trust model.

1

Crew Member

Creates the profile and provides the relevant documents and supporting evidence.

2

SIGVORA Maritime

Structures the record, applies role-based access and controls how evidence is shared.

3

Trusted Verifier

A suitable medical examiner, training provider or other approved party reviews the relevant credential or evidence.

4

Verified Crew Record

The result becomes part of the continuing professional record and credential history.

5

Authorized Maritime Recipient

A captain, agency or yacht-management company can review the verified status for its operational purpose.

Four trust principles

- Separation of roles: the crew member does not independently grant verified status to their own documents.
- Evidence before status: verified status should be based on reviewable evidence and the relevant verifying party.
- Controlled disclosure: sensitive professional and identity-related documentation should only be visible to authorized users for an appropriate period.
- Persistent history: renewals and later checks should extend the record without erasing earlier verification events.

5. Platform Roles and Partner Interfaces

Role	Primary responsibility
Crew Member	Creates and maintains the professional profile, uploads required documents, requests verification where applicable, grants controlled access and updates renewed credentials.
Maritime Doctor / Medical Examiner	Verifies the relevant medical documentation within the scope of the partner relationship and applicable professional responsibilities.
STCW School / Training Provider	Acts as a trusted source or verifier for training certificates and related professional records within its scope.
Captain	Reviews authorized crew credential status for vessel or employment-related operational checks. Captain access is intended to be fast and permissioned.
Crew Agency	Uses authorized verified information to support candidate screening and placement workflows without relying only on repeated scan exchanges.
Yacht Management Company	Uses verified crew information within broader management and compliance workflows, subject to role-based permissions.
SIGVORA Administrator	Oversees accounts, permissions, record status, onboarding, quality control and exception handling within the platform.

Interface logic

Each user group requires a different view. Crew members need a clear profile and credential-status interface. Verifying partners need focused access to the documents they are responsible for reviewing. Captains, agencies and management companies should see only the verified information intentionally shared for their operational purpose. Administrators require broader oversight for onboarding, testing, permissions and quality control.

6. End-to-End Crew Credential Workflow

The core maritime workflow from crew onboarding to authorized operational use.

- Crew account and profile creation**
 The crew member creates a SIGVORA profile that becomes the structured container for professional maritime documents and verified references.
- Credential record creation**
 The crew member adds the relevant credential category, identifying information and supporting file or image.
- Evidence upload**
 Documents may include ENG1 or other accepted seafarer medical documentation, STCW certificates, licences, endorsements, professional references where supported and identity-related documentation required for the operational file.
- Verification request or trusted-source review**
 Where verification is required, the record is submitted to the appropriate trusted verifier or institution.

5

Protected verifier access

The verifier receives controlled access to the relevant case rather than unrestricted permanent access to the crew member's complete file.

6

Independent review

The verifier reviews the submitted material within the rules and responsibilities of the relevant maritime credential or partner type.

7

Verified status linked to the credential

The outcome is stored with the crew record, creating a durable relationship between the document and the verification event.

8

Permissioned sharing

The crew member can grant access to a captain, crew agency or yacht-management company for an authorized operational purpose.

9

Operational review

The recipient can review the verified status and supporting information made available to them instead of manually reconfirming every scan from the beginning.

10

Renewal and history

When a certificate expires or is renewed, the record can be updated while preserving the earlier verification history.

7. The SIGVORA Maritime Digital Crew Record

The maritime record is designed to function as the crew member's structured digital professional file. It is intended to bring together credential identity, uploaded evidence, independent verification status, controlled access and later renewal history in one continuing record.

Typical information contained in the record

- Crew profile information and profile image where required by the product design.
- ENG1 or other accepted seafarer medical documentation.
- STCW certificates and training records.
- Licences, endorsements and role-specific qualifications.
- Professional references and verified employment history where supported.
- Identity-related documentation required for the operational file.
- Verification status and the relevant verifying institution or party where appropriate and permitted.
- Renewal dates, later credential versions and preserved historical verification events.
- Controlled sharing references and, in later product phases, NFC linkage for rapid retrieval.

What the digital record does not replace

Original documents and statutory requirements remain authoritative where the maritime context requires them. SIGVORA Maritime is intended to provide a trusted digital layer that shows which documents have been checked, whether they are current within the information available to the platform, and what verified evidence supports the professional record.

8. Captain, Agency & Yacht-Management Access

The value of the maritime record is created not only by storing information, but by making verified information accessible to the right operational recipient without exposing the entire private file.

Permissioned access

A crew member should be able to authorize a captain, agency or yacht-management company to review the relevant verified credential information. Access should be limited by role and operational purpose rather than being permanently public.

NFC as a physical-to-digital bridge

NFC is particularly relevant to SIGVORA Maritime because it can create a fast link between the physical operational environment and the verified digital crew record. The intended use is rapid permissioned retrieval, not public exposure of sensitive crew documentation.

Time-limited access

The current prototype architecture already includes protected share-link logic and expiring PDF or file-access tokens. A 12-hour PDF token mechanism has been implemented in the prototype, while a 24-hour protected access window has been designed for examiner cases.

OPERATIONAL OBJECTIVE

Give an authorized captain or management professional a faster path to trusted credential status without turning sensitive crew documentation into a permanently public record.

9. Partner Ecosystem & Commercial Model

SIGVORA Maritime is intended to become a shared verification infrastructure connecting multiple maritime participant types. The commercial model described in the current business overview emphasizes partner licensing and onboarding rather than placing a heavy access cost on crew members.

Partner categories

- Maritime doctors / ENG1-related medical partners.
- STCW schools and professional training providers.
- Captains.
- Crew agencies.
- Yacht-management companies.

Current working licence concepts

Partner category	Current pricing concept
ENG1 / maritime doctors	Approx. €1,000 annual partner licence
STCW schools / training providers	Approx. €2,500 annual partner licence
Captains	Approx. €5,000 annual licence
Crew agencies	Approx. €5,000 annual licence
Yacht management companies	Approx. €9,500 annual licence

These figures are working commercial assumptions from the current SIGVORA business overview and can be revised before final market launch or contractual use.

Current pre-sale concept

The current commercial concept is to secure 2027 licence commitments during 2026 while using 2026 for onboarding, process design and partner integration. Early partners who pay during the launch period can receive a 50% credit against the 2027 fee, with 2028 targeted as the first full-fee cycle.

Initial validation wave

The initial partner acquisition concept is intentionally selective: approximately 3-4 training schools, 5-10 maritime doctors, 3-5 captains and 2 yacht-management partners, followed by a broader captain network after the operating model has been validated.

Adjacent roadmap concept

The current Maritime roadmap also includes an adjacent private-yacht administration concept for vessels up to approximately 180 metres, using the same verified-document and permission infrastructure as the crew platform.

10. Technology, Access Control & Security

The current prototype is being developed as a web-based platform with role-based backend logic and controlled file access. The technical objective is to keep the operational experience simple while preserving strict separation between crew, verifiers, recipients and administrators.

Current technical direction

- Web application with customer / crew, examiner / verifier and administrator roles.
- FastAPI / Uvicorn backend architecture in the current prototype environment.
- Database-backed records and protected share-link logic.
- Expiring PDF or file-access tokens; a 12-hour PDF token mechanism has already been implemented in the prototype.
- Designed 24-hour protected access window for examiner cases.
- Multilingual interface direction: English, Spanish, French and German.
- GitHub-based development workflow and version-controlled application code.

Security principles

- Least-privilege access: users should see only the information required for their role.
- Time-limited external and verifier access rather than permanent public links.
- Sensitive crew evidence remains protected and is not intended to be publicly exposed.
- Verification results stay linked to the underlying credential record and history.
- Administrative oversight supports exception handling, testing and quality assurance.
- The platform distinguishes between evidence supplied by the crew member and findings supplied by an independent verifier.

Production hardening required

Before broad production use, the security model should be extended with formal identity verification, encryption-at-rest and in-transit policies, audit logging, backup and disaster-recovery procedures, privacy controls, data-retention rules, partner permission policies and sector-specific compliance review.

11. Current Product Status

What exists in the core prototype and what remains part of the Maritime build-out.

Capability	Status	Maritime meaning
Role-based platform	Prototype / implemented	Customer / crew, examiner / verifier and administrator roles exist in the core product architecture.
Record creation	Prototype / implemented	Structured asset/document records already exist and form the basis for crew credential records.
Photo and evidence upload	Prototype / implemented	Files and evidence can be attached to a case or record.
Verification request workflow	Prototype / implemented	A user can submit a case into examiner review.
Examiner case review	Prototype / implemented	Examiner-facing access and review flow exists in the prototype.
Time-limited file / PDF access	Prototype / implemented	Protected share-link and token logic exists; production hardening remains required.
Maritime credential profile	Defined / in development	Crew-specific record structure and credential categories are part of the Maritime product direction.
Multilingual selector	Defined / in development	EN / ES / FR / DE is part of the interface specification.
NFC linkage	Defined / in development	NFC is a key planned physical-to-digital access mechanism for Maritime.
Partner dashboards / APIs	Roadmap	Scaled interfaces and integrations are intended for institutional use.

12. Commercialization Roadmap

Phase 1 - Stabilize the core verification platform

Complete the crew, verifier and administrator experience; improve record creation, evidence handling, statuses, evidence requests, verification results and secure sharing.

Phase 2 - Build the Maritime credential layer

Standardize crew credential categories and document history so that ENG1 or accepted medical records, STCW certificates, licences, endorsements, references and identity-related documents can be managed consistently.

Phase 3 - Introduce persistent access and NFC

Connect the verified crew record to a persistent identity and permission model, including NFC where it provides meaningful operational speed and convenience.

Phase 4 - Maritime partner commercialization

Onboard selected medical examiners, STCW schools, captains, crew agencies and yacht-management companies. Validate measurable improvements in document-checking and administrative workflows before broader expansion.

Phase 5 - Scale partner interfaces

Develop partner dashboards and later enterprise integrations or APIs for management companies, agencies, professional networks and other approved maritime systems.

Phase 6 - Adjacent private-yacht administration

Evaluate the planned private-yacht administration module for vessels up to approximately 180 metres, using the same verified-document and permission infrastructure.

13. Why Maritime Is a Strong First Vertical

The current SIGVORA business overview identifies Maritime as a particularly strong commercialization path because the sector combines frequent document checks, international participants, repeated administrative work and a clear operational need for trusted credential access.

Reusable platform engine

The core workflow is repeatable across crew credentials: create a record, attach evidence, route it to an appropriate verifier, store the result, control access and preserve the history. The credential type changes, but the underlying platform process remains largely the same.

Network effect

A verified crew profile becomes more useful when multiple trusted maritime partners recognize the same record. Crew benefit when captains, agencies and management companies can rely on the same verification history; professional partners benefit when they can reduce repeated checking and document exchange.

SCALE LOGIC

The more trusted maritime participants accept the same permissioned verified record, the more useful each existing crew profile becomes.

14. Conclusion

SIGVORA Maritime is being developed as a dedicated digital trust infrastructure for professional yacht-crew credentials. Its core purpose is to replace fragmented, repeatedly exchanged document packages with a structured record that connects crew-supplied evidence, independent verification, controlled access and continuing credential history.

The current SIGVORA prototype already establishes the key operational pattern required for this model: structured records, separate user roles, evidence upload, independent review and protected time-limited access. The Maritime build-out applies that foundation to crew profiles, medical documentation, STCW records, licences, endorsements, references and authorized operational access.

Commercially, the platform is intended to grow through a selective partner network of maritime doctors, training providers, captains, crew agencies and yacht-management companies. The immediate objective is to validate the workflow with a focused first partner group before broader network expansion.

The long-term Maritime objective is for a SIGVORA crew record to become a trusted digital professional companion: maintained by the crew member, independently verified by appropriate partners, securely shared with authorized maritime recipients, and updated over time without losing the history of earlier checks.

SIGVORA MARITIME VISION

One trusted digital crew record connecting professional evidence, independent verification and authorized maritime access.

A. Example Crew Journey

1. A crew member creates a SIGVORA Maritime profile and uploads the required professional documents.
2. Relevant certificates are reviewed or verified by trusted training providers, medical examiners or other approved parties within their scope.
3. The verified credential status becomes part of the crew member's structured professional record.
4. The crew member grants controlled access to a captain, crew agency or yacht-management company.
5. The authorized recipient can review the verified status instead of manually reconfirming every scan from the beginning.
6. NFC can provide rapid physical-to-digital access to the permissioned profile where appropriate.
7. When a certificate expires or is renewed, the record is updated while preserving the history of earlier verification.

B. External Description - Short Form

SIGVORA Maritime is a digital trust platform for yacht-crew credentials and professional maritime documents. It creates a structured digital crew record, connects individual credentials to independent verification, and allows verified information to be securely reused by authorized captains, crew agencies and yacht-management companies. The platform is designed around role-based access, protected evidence sharing, continuing credential history and future NFC-enabled access, while original certificates and issuing authorities remain authoritative where required.

Document status: Maritime-focused business overview derived from the SIGVORA product concept and prototype status as of August 2026. Commercial pricing and roadmap items are working assumptions and may be revised before contractual use.