GLOBAL
NAVIGATION
SOLUTIONS

# GNS Partner
# Admiralty Digital Product
# Information

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GLOBAL NAVIGATION SOLUTIONS

# Introduction

This information pack is to provide you with information about the Admiralty digital products and services you can buy via Global Navigation Solutions. It is for your internal use only and should not be passed to customers.

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# Admiralty Vector Chart Service

The Admiralty Vector Chart Service (AVCS) is the most comprehensive, official, digital maritime chart service in the world; with over 13,000 ENCs from hydrographic offices around the world, packaged and quality assured by the UKHO into a single value-added service. AVCS provides the widest official coverage, allowing ships to navigate on ECDIS for the entirety of most major routes on a single chart service.

## Who's it designed for?

AVCS is designed for all vessels operating under the ECDIS mandate who require a digital navigation solution. AVCS helps crews to navigate safely and efficiently, and helps to keep vessels' compliant with flag and port state authorities.

## Why should a shipping company buy it?

1. Global maritime ENC coverage with more routes and ports than any other competing service
2. 100% official ENCs with certification to aid Port State compliance
3. Operates on all ECDIS makes and is available on two DVDs, making installation and updating even faster
4. Unique Admiralty Information Overlay (AIO) for additional passage planning information relating to T&P NMs displayed as a single layer on top of the ENC
5. Weekly updates available via email, online or on CD and DVD
6. Licences can be purchased for 3, 6, 9 or 12 months online

## Key points to remember

1. Compliance with ECDIS Mandate - vessels under the ECDIS mandate must use a digital chart service to maintain compliance. AVCS provides 100% official ENCs.
2. AVCS in Voyager Planning Station - using AVCS within Voyager gives the user a seemless operating system to manage, buy and update their digital charts.
3. Unique Admiralty Information Overlay - AIO combines all UKHO Temporary and Preliminary Notices to Mariners (T&P NMs) for all Admiralty Standard Nautical Charts and ENC Preliminary Notices to Mariners (EP NMs) resulting from the UKHOs' unique ENC verification process.
4. Instant Updates - AVCS charts are undated digitally meaning that crews no longer have to spend time manually updating their chart holdings to remain compliant.

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## How does it work?

The vessel should provide all of the information noted below to you, this is then sent to the GNS office in the UK via email. It is important to ensure that all of the information required is sent, other wise this could slow down the process for the customer. When the request is received the team in the UK will send an AVCS Base DVD to the vessel together with permit files. All the vessel needs to do is add the domain name @gnsworldwide.com to their white lists and install the product when the DVD is received onboard.

## AVCS customer onboarding process (Sales)

### CUSTOMER

Customer provides:
Company Name, Address & Contact details
Vessel Name
Vessel IMO No
Vessel Flag State
Vessel e-mail address
Vessel e-mail size
Vessel trading area
Vessel must confirm update method (Voyager, DVD with new editions, DVD to office)
ENC Permit numbers for each ECDIS unit
(28 digit alphanumeric number)

↓

Customer adds @gnsworldwide.com to their white lists

↓

Customer receives and installs AVCS DVD and Permits

↓

Service is activated

### PARTNER/GNS

Partner sends all of the information via email to their local GNS office, using one of the following email addresses and requests AVCS Base DVD be despatched to vessel:

Singapore - sg.digital@gnsworldwide.com
Germany - de.digital@gnsworldwide.com
Greece - gr.digital@gnsworldwide.com

↓

Local GNS office (i.e. UK, Singapore, Germany or Greece) issues AVCS permit file directly to the vessel and notifies Partner

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Local GNS sends invoice to Partner/Customer for items supplied

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## Frequently asked questions

### Will AVCS help maintain my navigation compliance?

All ships using AVCS on board receive a UKHO certificate. This certificate confirms that all ENCs in AVCS satisfy the chart carriage requirements of SOLAS Chapter V , and can be used for local inspection.

### How can I buy AVCS?

For maximum convenience AVCS ENCs can be ordered in predefined transit, regional or port folios (groupings of ENCs). New ENCs are automatically added to folio holdings as soon as they become available, ensuring ships always have the latest data within their chosen level of coverage.

Alternatively, all ENCs within AVCS can be bought on an individual, chart-by-chart basis for precise coverage and voyage flexibility. Simply buy the licences to unlock the charts needed for a voyage – when and for as long (3, 6, 9 or 12 months) as they are needed.

### What is the Admiralty Information Overlay?

To help crews identify areas of possible navigational uncertainty and risk at the crucial passage planning stage, all AVCS customers receive the unique Admiralty Information Overlay (AIO) at no extra cost. AIO combines all UKHO Temporary and Preliminary Notices to Mariners (T&P NMs) for all Admiralty Standard Nautical Charts and ENC Preliminary Notices to Mariners (EP NMs) resulting from the UKHOs' unique ENC verification process.

### Will AVCS work with Voyager?

AVCS works seemlessly with Voyager, and crews can use Voyager to maintain the vessel inventory, order new ENC licences and update weekly Notice to Mariners.

### How do I receive updates?

All AVCS customers receive weekly ENC updates on CD, DVD or via email or download. Installing the latest updates on a regular basis supports safe navigation andcompliance with flag and port state requirements.

### Will the coverage support the regions that my vessels sail in?

AVCS provides the widest official coverage, allowing ships to navigate on ECDIS for the entirety of mostmajor routes on a single chart service. Coverage includes the waters of Hong Kong, Taiwan, Thailand, Indonesia, United Arab Emirates, Vietnam and the Malacca Strait. AVCS also includes 2,950 of the biggest and busiest ports worldwide.

### Will I incur large data communication costs?

AVCS is available on one DVD, so users should experience faster loading speeds, fewer warning messages and reduced data handling.

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# Admiralty Digital Publications

Admiralty Digital Publications (ADP) are computer-based applications of the UKHO's market-leading paper-based nautical reference guides - List of Lights, Radio Signals and Tide Tables. They contain the same information as their paper equivalents, and are widely accepted as meeting SOLAS carriage requirements. ADP provides greater efficiency and flexibility – giving bridge crews faster, more accurate updates and easier access to the information they need.

## Who's it designed for?

ADP is designed for all vessels who currently use the range of paper based Admiralty nautical reference guides - List of Lights, Radio Signals and Tide Tables. ADP can offer a faster alternative to searching for information and are widely accepted as being SOLAS compliant.

## Why should a shipping company buy it?

1. ADP offers greater efficiency, faster updating and more flexible information access to help crews in navigation and passage planning.
2. Approved by the Flag States of over three quarters of ships trading internationally, ADP applications provide the same level of compliance as traditional Admiralty paper-based publications, for ships trading under these Flag States.
3. Electronic updating reduces time and effort spent making manual updates, and minimises the risk of human error.
4. Licences can be purchased for 3, 6, 9 or 12 months online.

## Key points to remember

1. Saves time every week - Weekly electronic updates can be received via internet, download, email or disc. These are quick and easy to apply compared to the manual NM updates for paper reference books.
2. Reduces the risk of human error - All updates are applied accurately and with a minimum of manual intervention, reducing stress on the bridge.
3. Enables ease-of-use - Crews can print or export information to use in navigational activities, such as passage planning.
4. Provides easy search options for ADLL and ADRS - Find lights information or relevant services quickly by map interface, position or word search.
5. Familiarity and reassurance - ADP displays information using easily recognisable formats, providing reassurance for users as they make the switch to digital applications.

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## How does it work?

The vessel should provide all of the information noted below to you, this is then sent to the GNS office in the UK via email. It is important to ensure that all of the information required is sent, other wise this could slow down the process for the customer. When the request is received the team in the UK will send an ADP Base CDand ADP Update CD to the vessel together with ADP Start Up Key. The vessel should then add the domain name @gnsworldwide.com to their white lists and install the product when the CDs are received onboard. The vessel should then contact the UKHO for an Activation Key, this will ensure the service is activated.

## ADP customer onboarding process (Sales)

### CUSTOMER

Customer provides:
Company Name, Address & Contact details
Vessel Name
Vessel IMO No
Vessel Flag State
Vessel e-mail address
Vessel e-mail size
Vessel trading area
Vessel must confirm update method (Voyager, DVD with new editions, DVD to office)

Customer adds @gnsworldwide.com to their white lists

Customer receives and installs ADP Base and update CDs & Start Up Key

Customer requests Activation Key from UKHO.
Customer installs Activation Key.

Service is activated

### PARTNER/GNS

Partner sends all of the information via email to their local GNS office using one of the following email addresses and requests ADP Base CD & ADP Update CD are despatched to vessel:

Singapore - sg.digital@gnsworldwide.com
Germany - de.digital@gnsworldwide.com
Greece - gr.digital@gnsworldwide.com

Local GNS office issues ADP Start Up Key directly to the vessel and notifies Partner

Local GNS office sends invoice to Partner/Customer for items supplied

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# Frequently asked questions

## What information is included in ADP?

ADP can be purchased on a modular basis, meaning customers only buy the information that they need.

ADP is split into three modules:

1. Admiralty Digital List of Lights (ADLL)– an advanced source of navigational light and fog signal information, covering over 70,000 individual light structures worldwide.

2. AdmiraltyTotalTide (ATT) – the world's most comprehensive tidal prediction program, bringing global tidal height and tidal stream data together. It allows crews to make tidal predictions for more than 7,000 ports and 3,000 tidal stream stations worldwide.

3. Admiralty Digital Radio Signals (ADRS)

ADRS 1, 3, 4, 5 – gives radio communications details for the relay of information on weather, safety, pollution, quarantines, Telemedical Assistance Services (TMAS) and GMDSS.

ADRS 2 – a range of compliant, digital positional and timekeeping references to help ensure ships are at the right place at the right time.

ADRS 6 – essential maritime radio communications information for 3,600 service locations worldwide, including pilot services, Vessel Traffic Services and port operations.

## What are the benefits of ADP?

They provide greater efficiency and flexibility – giving bridge crews faster, more accurate updates and easier access to the information they need.

## Is ADP compliant?

Approved by the Flag States of over three quarters of ships trading internationally, ADP applications provide the same level of compliance as traditional Admiralty paper-based publications, for ships trading under these Flag States.

## Will ADP work with Voyager?

ADP applications can be viewed as a single layer on top of official navigational charts and works seemlessly with Voyager.

## What is the benefit of electronic updating?

Electronic updating reduces time and effort spent making manual updates, and minimises the risk of human error.

## What are the licencing options for ADP?

ADP applications can be individually licensed, installed, used and updated, and each application can be used on two separate computers per ship while satisfying SOLAS requirements.

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# Admiralty eNPs

e-NPs are official Admiralty Nautical Publications in a more convenient electronic format, bringing improved efficiency,accuracy and access to information bridge crews need. e-NPs are displayed using Admiralty e-Reader. This is a specifically designed, easy-to-use reader software developed by the UKHO, and supplied to the customer as part of the service at no extra cost.

## Who's it designed for?

Admiralty e-NPs are e-books for the mariner - allowing bridge crews to add NM updates faster and more accurately than paper publications, and giving them easier access to information they need.

## Why should a shipping company buy it?

1. Same familiar look as all Admiralty Nautical Publications
2. Easier access to information the mariner needs
3. Weekly Notices to Mariners added in seconds drastically reducing the time spent by crews every week compared to updating paper NtMs
4. e-NPs can also aid inspections by clearly showing when a publication was last updated with weekly NMs
5. 86 Admiralty e-Nautical Publications available with more being added over the coming months
6. eNP licences can be used on up to three computers onboard
7. Inbuilt search function to access information more easily and quickly than ever
8. Easy-to-read Admiralty e-Reader software

## Key points to remember

1. Compliance - e-NPs are designed to meet SOLAS carriage requirements, contain the same official information as their paper equivalents, and have been approved by the Flag States of over three quarters of ships trading internationally.
2. Aiding passage planning- the e-Reader snap shot function helps bridge crews view, save and print e-NP pages and any applicable NMs and addendums,which can be used to support passage planning.
3. Instant Updates - Bridge crews can download relevant Notices to Mariners (NM)updates in just a few seconds every week, freeing their time to focus on other important duties. The electronic weekly NM updates are added to the relevant e-NPs with greater consistency, accuracy and clarity; helping to give decision makers more confidence on the bridge.

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## How does it work?

The vessel should provide all of the information noted below to you, this is then sent to the GNS office in the UK via email. It is important to ensure that all of the information required is sent, other wise this could slow down the process for the customer. When the request is received the team in the UK will send an eNP Base CDand eNP Update CD to the vessel together with eNP username and password. The vessel should then add the domain name @gnsworldwide.com to their white lists and install the product when the CDs are received onboard. The vessel should then contact the UKHO for an Activation Key, this will ensure the service is activated.

## eNP customer onboarding process (Sales)

### CUSTOMER

Customer provides:
Company Name, Address & Contact details
Vessel Name
Vessel IMO No
Vessel Flag State
Vessel e-mail address
Vessel e-mail size
Vessel trading area
Vessel must confirm update method (Voyager, DVD with new editions, DVD to office)

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Customer adds @gnsworldwide.com to their white lists

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Customer receives and installs eNP CD & logs on to software

↓

Customer requests Activation Key from UKHO.
Customer installs Activation Key and updates publications from eNP Update CD

↓

Service is activated

### PARTNER/GNS

→ Partner sends all of the information via email to their local GNS office using one of the following email addresses and requests the eNP Base CD & eNP Update CD are despatched to the vessel:

Singapore - sg.digital@gnsworldwide.com
Germany - de.digital@gnsworldwide.com
Greece - gr.digital@gnsworldwide.com

↓

Local GNS office issues eNP User Name & Password and sends to directly to vessel and notifies Partner

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Local GNS office sends invoice to Customer/Partner for items supplied

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# Frequently asked questions

## What are eNPs?

e-NPs are digital versions of paper Nautical Publications. They are e-Books but differ in the fact that they are updated and sold as a data service on subscription rather than per edition. e-NPs are encrypted PDF versions of their paper equivalent; they look identical. This is essential in order to demonstrate that Notices to Mariners (NM) corrections have been made and the publication is compliant.

## What publications are included within the eNP range?

All of the following Admiralty publications are now available as eNPs plus may more titles:

- Sailing Directions
- Nautical Almanac (NP314)
- Guide to the practical use of ENCs (NP231)
- Guide to ENC symbols used in ECDIS (NP5012)
- Guide to ECDIS Implementation, Policy and Procedures (NP232)
- How to keep your Admiralty products up-to-date (NP294)
- Cumulative list of Admiralty Notices to Mariners
- Mariners Handbook (NP100)
- Ocean passages for the world (NP136)
- IALA Maritime Buoyage System (NP735)
- Symbols and abbreviations used on Admiralty charts (NP5011)
- Annual summary Admiralty Notices to Mariners

## Can I use e-NPs if my vessel is paperless?

Provided you are operating dual systems with independent power supplies and have carried out a risk assessment according the guidelines laid out by your Flag State - Yes.

## What is the average size of the weekly update files to download?

The weekly updates for Admiralty e-NPs are very small, approximately 0.5Mb for all publications. The e-NPs, however, are considerably larger than ENCs so you should receive new editions using cheaper shore based comms or hard media.

## How do I receive updates?

Small, weekly NM update files can be regularly downloaded via the internet and accurately added to e-NPs in seconds - far more easily and quickly than with paper-based products. This allows bridge crews more time to focus on other important duties and gives decision makers more confidence on the bridge. These updates are also available on a quarterly DVD.

## Why does my Admiralty e-NP only last for 12 months when the paper equivalent lasts longer?

It is recognised that in most cases users do not require the NP for its full life span and therefore we are offering increased flexibility by providing a 12 month subscription.

## If my vessel is laid up will I get a re-bate?

This will not be possible as once the Admiralty e-NP has been unlocked a rebate cannot be offered.