



## Fact Sheet: AusENC

### Installing, updating and renewing the AusENC Service

This guide provides detailed information about the AusENC Service. It should assist you to:

- Understand the relationship between all the component parts of the service,
- understand how to set up a new or renewed subscription,
- understand how to apply Update datasets to the latest Base dataset, and
- what to do when it's time to renew.

Within this Fact Sheet the following topics are covered:

<b>AusENC SERVICE DESCRIPTION</b>	2
<b>QUICK GUIDE</b>	4
<b>AusENC TECHNICAL SUPPORT</b>	5
<b>DETAILED GUIDE</b>	6
Acquiring your S-63 User Permit	6
Acquiring your S-63 Scheme Administrator Certificates	6
Acquiring your ENC Permits	6
Acquiring your AusENC Base and Update datasets	7
Removing old ENC and ENC Permits	8
Installing your AusENC service	8
Your fortnightly AusENC Update Notification Email	9
Your fortnightly AusENC Update Report	9
Receiving replacement ENC Permits	10
Using incremental Update datasets	11
How to check that all updates have been applied on your system	11
What to keep for backup purposes	11
Subscription expiry and renewal	12
AusENC users also using another ENC service	13

## AusENC SERVICE DESCRIPTION

### Why is updating AusENC important?

**Safety:** Charted information significant to navigation regularly changes and these changes are issued as AusENC updates. Maritime safety updates can include changes to:

- port infrastructure including new port developments
- navigational marks and lights
- dredged and other charted depths
- cables and pipelines
- pilotage areas, anchorage areas and restricted areas
- conspicuous landmarks
- new reported dangers to surface navigation such as shoals, obstructions and wrecks

By loading each published AusENC update (and any corresponding ENC permits) promptly onto your navigation system you can sail with confidence knowing that your AusENC are up to date as possible for navigationally critical information and are safe to use.

**Compliance:** The following vessels are required to carry up-to-date official nautical charts and nautical publications in order to comply with regulations:

- All vessels required to meet SOLAS Chapter V regulations covering the carriage of electronic charts and ECDIS.
- Most commercial vessels 12m or more in length engaged in Australian domestic commercial vessel operations required to meet National Standards for Commercial Vessels (NSCV) regulations.

### What type of updates are included in AusENC?

AusENC updates include:

- Navigationally significant maritime safety updates (as listed above) for any of the ENC in your packs including all Permanent, Temporary and Preliminary Notices.
- New editions of ENC already included in your packs.
- New ENC added in the geographical area covered by your packs. These include newly published ENC and previously published ENC that are added to your packs. New ENC added automatically and at no cost.

Updates are also used to cancel withdrawn ENC.

### AusENC Packs

Users can subscribe to all, or some, of the ENC produced by the Australian Hydrographic Office, and ENC packs produced by the New Zealand Hydrographic Authority. To meet requirements for different areas of coverage, the ENC are available in packs that range in size from a single port, to all of Australia. For more information, please refer to the AHO website.

## What are the main components of the AusENC service?

The AusENC service consists of two primary datasets – a ‘Base dataset’ issued in January and July, and ‘Update datasets’ issued on all intervening fortnights. All other components of the service enable users to make use of those Base and Update datasets for the ENC they require within their navigation system. The following table describes all the component parts of the service:

Component	Description	Source and Timing
Base dataset	At the fortnight of issue, the Base dataset includes the most up to date version of every ENC in the AusENC portfolio (900+ ENC). Total dataset size is 200-300mB. The specific ENC you can access is controlled by the ENC Permits.	Every six months via AusENC as follows: <ul style="list-style-type: none"><li>• Friday Week 02 (January) and</li><li>• Friday Week 28 (July)</li></ul>
Cumulative Update dataset	Contains all updates issued since the latest base dataset release. Dataset size may grow to 20-30mB by end of Base dataset period.	Each Friday fortnight on even calendar weeks, except when this coincides with a new Base dataset.
AusENC update notification email	Provides comprehensive information about the latest Base or Update release and instructions on what to do. It includes: <ul style="list-style-type: none"><li>• A single AusENC Update Report relevant to all of your individual subscriptions and packs, covering whether there are updates to existing ENC, any new or replacement ENC, or any withdrawn ENC in your packs.</li><li>• ENC permits for new or replacement ENC within your subscribed packs.</li></ul>	Each Friday fortnight in conjunction with release of Base and Update datasets.
ENC Permits	These are used by your navigation system to unlock access to the encrypted AusENC Base and Update datasets during the subscribed period for the subscribed packs.  Each time permits are issued they contain the latest for every ENC contained within <u>all</u> your active AusENC pack subscriptions for a particular system.  If you have AusENC subscriptions for multiple navigation systems, you will receive a separate set of ENC permits for each system (S-63 User Permit).	Supplied by email from AHO: <ul style="list-style-type: none"><li>• When you establish or renew your AusENC subscriptions, or add a new pack.</li><li>• Attached to your fortnightly AusENC update notification as required.</li></ul>
Incremental Update dataset	Contain updates that relate to an individual fortnightly release. They are appropriate for navigation systems that automatically poll the AHO website, or for those users with extremely limited bandwidth.	Each Friday fortnight on even calendar weeks, except when this coincides with a new Base dataset.
Chart Service Certificates	These list all AusENC packs you have subscribed to and their expiry dates for a single navigation system / S-63 user permit. Users with multiple systems will receive separate certificates for each system.  They are useful for regulated vessels subject to an inspection regime to demonstrate the currency of their navigation portfolio, when used in conjunction with a record of updates, until the 'Licensed to' date shown.	Supplied by email from AHO: <ul style="list-style-type: none"><li>• When you establish or renew your AusENC subscriptions.</li><li>• When you purchase an additional pack during a subscription.</li></ul>

## What are the main components of the S-63 Data Protection Scheme?

Almost all national hydrographic offices use the IHO S-63 Data Protection Scheme. The key function of the scheme is to ensure that ENC are not corrupted between release by the hydrographic office, and using it in your navigation system. The following table describes all the component parts of the data protection scheme:

Component	Description	Source and Timing
S-63 User Permit	<p>A 28 character alphanumeric code created by your system manufacturer and provided to you when you purchase your navigation system. You must use this code when ordering your ENC service.</p> <p>Your S-63 User Permit is used to create cell permit files (PERMIT.TXT, ENC.PMT) that will unlock the encrypted ENCs that you purchase.</p>	Upon purchase of your navigation system.
S63 Scheme Administrator Certificate	<p>An authentication file used by your system to ensure it recognises that the ENC you are loading have come from an official source.</p> <p>If a producer is not included on this certificate (IHO.crt), then your system will not accept anything supplied by that producer.</p>	Included on AusENC Base datasets and disks, and from the International Hydrographic Organization website.

## QUICK GUIDE

### How to set up your AusENC Service

New subscribers or those re-subscribing to the AusENC service will need:

- An 'S-63 User Permit', contact and subscription details. Forward these details to the Australian Hydrographic Office - your AusENC distribution agent will normally do this for you
- An 'S-63 Administrator Certificate' - included in the AusENC Base dataset / disk, or from the IHO website
- ENC permits - sent by AHO
- Base dataset - on disk from AusENC distribution agent or downloaded from AHO website
- Cumulative Update dataset, issued on all fortnights except Base release fortnights - on disk from AusENC distribution agent or downloaded from AHO website.

To install your Base and Update datasets:

- Install your 'S-63 Administrator certificate' – first time users
- Delete all old data and permits
- Load your ENC Permits, Base dataset and cumulative Update dataset - methods vary between different navigation systems, check your system manual
- Retain latest ENC Permits, Base dataset and cumulative Update dataset.

## How to update your AusENC Service

The following instructions if you are a new subscriber or re-subscribing to the AusENC service.

- Review your AusENC update notification and attached report (sent by AHO)
- Download the latest cumulative Update dataset (if the report indicates there are updates applicable to ENC in your subscribed packs)
- Copy / paste the replacement ENC Permits into you navigation system (Permits sent by AHO if there are new or replacement ENC in your subscribed packs)
- Load the latest Cumulative Update dataset (some navigation systems will automatically poll the AHO website and apply the latest Incremental Update dataset)
- Retain latest Permits, Base dataset and cumulative Update dataset.

## Subscription expiry and renewal

You should not use AusENC packs with expired subscriptions as you will not be able to apply navigational critical updates. IHO S-63 compliant navigation systems should also issue warnings prior to subscription expiry.

Your fortnightly AusENC Update report will include expiry notifications as for each subscribed pack:

- Four weeks and two weeks before expiry – affected packs highlighted orange
- Two weeks after expiry – affected packs highlighted red
- More than two weeks after expiry – expired packs no longer listed.

## AusENC TECHNICAL SUPPORT

If you need help with installing updates on your navigation system you should contact your system manufacturer or system distributor.

However, if you are experiencing problems with the AusENC data or have misplaced your latest AusENC permits and would like them resupplied, please contact the AHO via email.

AHO Technical Support	<a href="mailto:hydro.sales@defence.gov.au">hydro.sales@defence.gov.au</a>
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## DETAILED GUIDE

The following sections provide additional detail for each step listed in the Quick Guide. In applying this additional information, please follow the sequence of steps listed in the Quick Guide.

### Acquiring your S-63 User Permit

Each separate system will have a separate S-63 User Permit. This identifies each system within your subscription, with the AHO allowing up to five separate systems (five separate S-63 User Permits) in each vessel to be loaded with ENC under a single subscription.

Your S63 User Permit is a 28 character alphanumeric code created by your system manufacturer and provided to you when you purchase your navigation system. You must use this code when ordering your ENC service.

Your S63 User Permit will be used to create ENC permit files (PERMIT.TXT, ENC.PMT) that will unlock the encrypted ENC in that specific navigation system.

### Acquiring your S-63 Scheme Administrator Certificate

To use AusENC your navigation system must have the 'S-63 Scheme Administrator certificate' (IHO.crt) installed. The 'Primar certificate' (PRIMAR.crt) will not work with AusENC.

Some manufacturers supply the 'S-63 Scheme Administrator certificate' with their software or provide a web-site link to the certificate in their system documentation. A copy of the IHO S-63 Scheme Administrator certificate is included on each AusENC Base dataset CD under the directory called 'EXTRAS'. If you wish to independently download the IHO S-63 Scheme Administrator certificate go to: [www.iho.int/iho\\_pubs/standard/S-63/S-63\\_SA\\_Certificate.htm](http://www.iho.int/iho_pubs/standard/S-63/S-63_SA_Certificate.htm)

### Acquiring your ENC Permits

You will require permits to be able to install your AusENC service on your navigation system. These will be sent to you by email from the Australian Hydrographic Office once your AusENC subscription order has been processed. This normally occurs within two working days of your order being received.

- Check your email inbox for an email with the subject heading beginning "*AusENC Permits and Chart Service Certificate*". Your AusENC permits will be attached to this email in a file called 'ENC.ZIP'.
- Open the ENC.ZIP file.
  - **Single systems:** If you have an AusENC subscription for one system / S-63 user permit you will find one folder labelled with this S-63 user permit. Open this folder to find your permits called ENC.PMT and PERMIT.TXT.
  - **Multiple systems:** If you have AusENC subscription for multiple systems / S-63 user permits, you will find multiple folders, one for each system, labelled with its unique S-63 user permit. Open each of these folders and you will find ENC permits that match the S-63 user permit. The permits are called ENC.PMT and PERMIT.TXT. ENC permits will only work on the system with the matching S-63 user permit so it is important that you can identify which set of ENC permits correspond to each system / S-63 user permit.

- Even though ENC.PMT and PERMIT.TXT are supplied, your system will only use one type of ENC permit file. Consult your system manual to find out whether it requires the ENC.PMT or the PERMIT.TXT file and copy the corresponding file ready for loading on your system. If unsure, copy both file types.

If you have not received your AusENC permits in a timely manner, check your 'Junk' inbox. If not there, contact your AusENC Distributor.

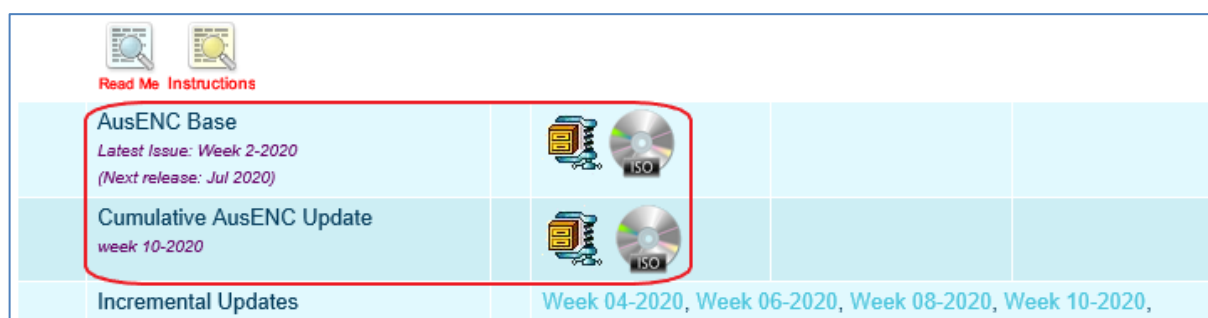
## Acquiring your AusENC Base and Update datasets

Your AusENC data can be acquired as follows:



- **Option 1** – Base dataset and latest cumulative Update dataset on the CD received from your AusENC distributor at order placement. AusENC Distributors normally have the latest AusENC base and update CDs in stock to supply to new subscribers upon request. Update CDs supplied from AusENC Distributors are always cumulative updates.
- **Option 2** - By manually downloading the latest Base and Update datasets from the 'AusENC' section of the Product Downloads page on the AHO website. This is the normal method for standard subscribers.

AHO website Product Downloads Page	<a href="http://www.hydro.gov.au/webapps/jsp/downloads/products.jsp">www.hydro.gov.au/webapps/jsp/downloads/products.jsp</a>
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- **Option 3** - By automatic download (from the 'AusENC' section of the Product Downloads page on the AHO website) if you have automatic download capable navigation system.



- **Choose a file format to download** – options are:

	<b>ISO Disc</b> - Recommended if your system requires loading from CD. This type of file requires minimal user intervention to burn the data to CD using common CD writing software.
	<b>Compressed.ZIP</b> - Recommended if your system does not require loading from CDs. Used for systems that allow data to be loaded from portable memory sticks /portable storage devices or from a networked file location that your system can access.

- **Download your AusENC datasets** as follows:
  - Base and Update datasets must be copied and stored in their own original, unique folder structures to work correctly on your system.



- If copying to a portable memory stick / portable storage device or to a networked file location, consult your system manual to find out if your system requires you to copy base and update datasets to specific folder names or to specific file locations.
  - i. **Download the 'AusENC Base'** by selecting either the ISO disc image or compressed.ZIP icon and save to your desired file location.
  - ii. **Download the 'Cumulative AusENC Update'** (if available on the page) by selecting either the ISO disc image or compressed.ZIP icon.
- Select the 'Instructions' icon on the Product Downloads page for detailed instructions for creating AusENC base and updates on CD.

Base and Update datasets must be copied and stored in their own original, unique folder structures to work correctly on your system.

If copying to a portable memory stick / portable storage device or to a networked file location, consult your system manual to find out if your system requires you to copy base and update data to specific folder names or to specific file locations.

## Removing old ENC and ENC Permits

Consult your system manual and remove (delete) all:

- previously loaded AusENC Base and Update datasets, and
- previously loaded ENC permits.

Your system may have stored AusENC base and update data in multiple file locations. You must remove AusENC data from each location.

If you are a first time user this step is not required.

The AusENC service is a local service and not intended for merging with another ENC service. Consequently, if you have Australian (AU), New Zealand (NZ), Papua New Guinea (PG) or Solomon Islands (SB) ENC, duplicated in another service (such as AVCS or New Zealand's NZ ENC service), and in the AusENC service, you may experience warnings or error messages. These messages are associated with duplication of data, or versioning differences arising from receiving updates at different times. Users seeking to use the AusENC service in conjunction with another ENC service should refer to '**AusENC users also using another ENC service**'.

## Installing your AusENC service

The procedure for loading ENC (including AusENC) into navigation systems varies from system to system.

The Base dataset contains all ENC published by the AHO. Depending on your system, you may have to install all ENC from your Base and Update CDs or have the option to install just the ENC contained within the subscribed packs. Depending on your system and the number of ENC to be installed, installation of the Base CD may take some time.



## **Your fortnightly AusENC Update Notification Email**

Your update notification will have the subject heading “AusENC Week XX Base data available” or “AusENC Update Week XX Update data available” where ‘XX’ is the number of the calendar week.

Your notification email will:

- Advise the calendar week number of the AusENC update expressed as “AusENC Week XX”;
- Advise if base or update data has been released;
- Always have your AusENC Update Report attached;
- Have replacement ENC permits attached if your packs included newly added ENC or new editions; and
- Include instructions on how to update your service.

If you don’t receive your notification:


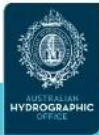
- Check your ‘Junk’ inbox
- Check the expiry date of your subscriptions. You can do this by referring to your AusENC Chart Service Certificates or by referring to the last AusENC update report received.

If your subscriptions have not expired and you can’t find your notification, contact the AHO at [hydro.sales@defence.gov.au](mailto:hydro.sales@defence.gov.au) to arrange for it to be re-sent.

## **Your fortnightly AusENC Update Report**

Your report includes:

- A single report applicable to as many systems as are included in your AusENC subscription
- Your S-63 user permit(s) applicable to your navigation system
- An indication that updates have been applied to one or more ENC within your subscribed packs (indicating that you should download and install the latest update)
- An indication that new ENC Permits are applicable for your subscribed packs (permits will be a separate attachment to the email)
- Expiry date of your pack subscriptions.
- Details of new ENC and new editions of existing ENC added to your subscribed packs.
- Details of any ENC cancelled from within your subscribed packs.

Dear AusENC Customer

It is important to ensure all ENC's in use are updated via a valid (and regular) update service to remain navigationally safe. Additionally if you use AusENC to meet requirements governing navigation on international or Australian domestic commercial vessels you will **not** be compliant if you do not keep the ENC's you navigate on updated.

The table below lists the update status of your AusENC subscriptions for **Week 50-2019**.

S63 User Permit	New Cell Permits	Updates to Packs	AusENC Pack	Expiry Date
E0E9CC6EEE575A1730C738EC4539	Yes	Yes	AUST1	31/05/2020
			CST17	31/05/2020
			CST18	31/05/2020

3c
3a
3b

**New Cells and New Editions** 3d

Cell	Cell Title	Edition	AusENC Pack
AU314123	Indian Ocean - Echuca Shoal	6	AUST1
AU417123	Western Australia - Koolan Island To King Sound	4	AUST1
AU421115	Western Australia - Montebello Islands and Barrow Island	16	AUST1
AU427113	Western Australia - Steep Point and Henri Freycinet Harbour	3	AUST1
AU429113	Western Australia - Houtman Abrolhos	5	AUST1
AU439147	Bass Strait - Oil and Gas Fields - West	5	AUST1
AU6CNS01	Australia - Queensland - Cairns Outer Harbour	5	AUST1
AU6CNS02	Australia - Queensland - Cairns Inner Harbour	3	AUST1

**Cancelled Cells - Nil** 3e

**Updated Cells**

The current update status of cells within each AusENC pack (edition number and update number) is available on the AHO website at <http://www.hydro.gov.au/prodserv/digital/ausENC/pack-index.htm>.

## Receiving replacement ENC Permits

If your AusENC Update Reports states 'Yes' to 'New ENC Permits' (or 'New Cell Permits') for any of your S-63 user permits, an ENC.ZIP folder will be attached to your notification email. New ENC Permits will be supplied:

- Upon release of a new ENC that has been automatically added within one or more of your subscribed packs
- Upon release of a new edition of an existing ENC within one or more of your subscribed packs
- If an existing ENC has been withdrawn without a direct replacement from within one or more of your subscribed packs (such as when a new ENC has a different name to the one it replaces).

To load the replacement ENC Permits you should follow the same procedure for the ENC.ZIP folder (containing the ENC.PMT and PERMIT.TXT files) as followed for **Acquiring your ENC permits**.

However, when loading replacement ENC Permits within your current subscription period you should not need to delete all old ENC and ENC Permits first – the installation process should do this for you for the relatively few that are actually being replaced.

If your update report states 'Yes' to 'New ENC Permits', but no ENC.ZIP file is attached, contact the AHO at [hydro.sales@defence.gov.au](mailto:hydro.sales@defence.gov.au).

### Using incremental Update datasets

The AHO recommends all users manually applying updates use the cumulative Update datasets. These grow over time following release of a new Base dataset. A cumulative Update dataset will include all fortnightly updates, and ensure they are loaded sequentially. This is essential – installation of updates to an individual ENC in the wrong sequence, or with gaps in the versioning sequence, will result in an update failure. Use of cumulative Updates avoids this potential problem. Once a Base dataset has been in use for almost six months, the cumulative Update dataset may have grown to 20 to 30 mB. This is considered a reasonable maximum file size that governs the AHO practice of two Base datasets per year.

However, users with extremely limited bandwidth, or those able to make use of automated polling by their system to acquire and install updates, may find the incremental Update datasets more appropriate. These are generally no more than 6 mB each fortnight. If a few incremental Updates have been missed, the most effective method to catch up is to manually download and install the latest cumulative Update, then return to the incremental Updates if desired.

### How to check that all updates have been applied on your system

An ECDIS maintains an internal list of updates and the date of installation. To highlight updates on the navigation screen, make sure all layers are displayed on your navigation system.

The update history of individual ENC can be manually interrogated and either displayed on screen or printed out. To do this, refer to your system manual.

This can be compared to the 'AusENC List' on the AHO website. This lists each ENC, including 'Edition number' and 'Update number'. If you have the latest version of an ENC installed on your system Edition number and Update numbers will match.

AHO AusENC List	<a href="http://www.hydro.gov.au/webapps/jsp/charts/enclist.jsp">http://www.hydro.gov.au/webapps/jsp/charts/enclist.jsp</a>
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### What to keep for backup purposes

Retain only the following for backup purposes:

Your latest Base dataset
Your latest cumulative Update dataset which corresponds to your latest Base dataset (or all incremental updates since the most recent Base dataset).
Your latest AusENC permits for each navigation system / S-63 user permit. This is because each time ENC permits are issued they contain the latest permits for <u>every</u> ENC contained within <u>all</u> your active AusENC packs for a particular system / S-63 User Permit.

**Recommended labelling of backup CDs:** If you intend to keep CDs for backup purposes it is important to label them with versioning details, as errors will be experienced if Update data is applied to the wrong Base data. The following labelling is recommended:

<b>Base CDs</b>	<b>Specify 'Base' and issue week and year.</b> <i>Example: 'Week 02-2019 Base'</i>
<b>Update CDs</b>	<b>Specify 'Update' and issue week and year, the type of update and the Base issue week and year the update relates to.</b> <i>Examples: 'Week 04-2019 Cumulative Update. Relates to Week 02-2019 Base' 'Week 06-2019 Incremental Update. Relates to Week 02-2019 Base'</i>

### Subscription expiry and renewal

You should not use AusENC packs with expired subscriptions as you will not be able to apply navigational critical updates. IHO S-63 compliant navigation systems should also issue warnings prior to subscription expiry.

Your fortnightly AusENC Update Report will include expiry notifications as for each subscribed pack:

- Four weeks and two weeks before expiry – affected packs highlighted orange
- Two weeks after expiry – affected packs highlighted red
- More than two weeks after expiry – expired packs no longer listed.

Example 1: Two updates before pack expiry date.

The table below lists the update status of your AusENC subscriptions for Week 46-2019.

S63 User Permit	New Cell Permits	Updates to Packs	AusENC Pack	Expiry Date
2DB907C7D39F901D0E24C0A73442	Yes	Yes	AUST1	30/11/2019
68AE4478ABE198C82F520D513732	Yes	Yes	AUST1	30/11/2019

Example 2: Update released one update after pack expiry date.

The table below lists the update status of your AusENC subscriptions for Week 50-2019.

S63 User Permit	New Cell Permits	Updates to Packs	AusENC Pack	Expiry Date
2DB907C7D39F901D0E24C0A73442	No	No	AUST1	30/11/2019
68AE4478ABE198C82F520D513732	No	No	AUST1	30/11/2019

## AusENC users also using another ENC service

.Australian (AU), Papua New Guinea (PG) or Solomon Islands (SB) ENC are also included in a number of ENC services offered by the IC-ENC distribution network (such as AVCS) and PRIMAR. The selected NZ ENC packs in the AusENC service are a subset of those included in the NZENC service, and similarly available through IC-ENC and PRIMAR networks.

The AusENC service is optimised for use in isolation from any other ENC services – it is a local service. If you are moving to the AusENC service from another service, refer to the start of this Fact Sheet and follow the installation process – removing old ENC Permits is an integral part of the installation process.

For those users seeking to merge coverage in the AusENC service with ENC from other nations available via other services, the recommended approach is to use one of the several 'global' services listed on the IC-ENC and PRIMAR websites.

However, if you are intending to use the AusENC service in combination with other ENC services, and you already have identical AU, PG, SB or NZ ENC and corresponding ENC Permits loaded, additional steps must be taken. These will address the possibility of experiencing data versioning errors and system warnings associated with duplication of data, and versioning differences arising from differing update timeframes through different services. To address these possibilities, the following is therefore recommended:

- Identify which service will be your primary service, and which will be your secondary service. Thereafter, load ENC Permits for all **deduplicated** ENC from the primary service, and stick to this choice for the duration of your parallel subscriptions. The primary service should be the one with the greatest number of subscribed AU, SB, PG or NZ ENC in order to minimise the number of ENC Permit deletions required during the next step. For example, if your other service subscription has five AU ENC and you have an AusENC subscription for an Australia pack (all AU ENCs) via AusENC, it will be more efficient to make AusENC your primary service and exclude loading ENC Permits from the other service.
- Look for matching ENC filenames listed in either both service's PERMIT.TXT files or ENC.PMT files.
- Remove all **deduplicated** ENC Permits and duplicated ENC loaded on your navigation system that are from the secondary service. **You must do this every time you receive a replacement PERMIT.TXT and ENC.PMT file from the secondary ENC service.** Some navigation systems will allow you to exclude permits in their permit load dialogue box. Consult your system manual for instructions.
- Load Base and Update data and **all** ENC Permits in your primary service. Load Base and Update data and **all non-duplicated** ENC Permits in your secondary service.

A simple way of identifying ENC subscribed in both services is to look for matching ENC filenames listed in both service's PERMIT.TXT files or both service's or ENC.PMT files. These files can be opened in Wordpad or a similar text editor. The first eight alphanumeric characters (letters and numbers) on each row of text represents the file name of an ENC.

File Name	Expiry Date	Rest of permit
AU130120	20130331	E6B58407ABB63A85E6855DA3C129732C13E18A4DA7AD057D,0,9,AU