



**AERONAUTICAL SERVICES
ADVISORY MEMORANDUM
(ASAM)
Focal Point: Gen**

ASAM.
No: 07
Issue 2
Date:03.12.14
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Policy on Naming of Significant Points

1 INTRODUCTION

Modern air navigation systems use longitudinal and latitudinal designated points, identified either by a unique pronounceable or alphanumeric Five Letter Name Code (5LNC).

This guidance is to assist the proponent in the submission of waypoint suggestions to the Safety Regulation Division of the Irish Aviation Authority and to explain the use and application of both naming options.

Any requests for further information or observations on this ASAM should be forwarded to ansdinfo@iaa.ie

2 REFERENCES

ICAO Annex 11 – Air Traffic Services

ICAO Doc 8168 Vol II - Procedures for Air Navigation Services, Construction of Visual and Instrument Flight Procedures

3 DEFINITIONS

ATS route - A specified route designed for channelling the flow of traffic as necessary for the provision of air traffic services.

Note - An ATS route is defined by route specifications that include an ATS route designator, the track to or from significant points (waypoints), distance between significant points, reporting requirements and, as determined by the appropriate ATS authority, the lowest safe altitude.

ICARD ICAO International Codes and Routes Designators

ICARD Public User - Members of the public who can access part of the ICARD application without prior registration

ICARD Authorised User - The ICARD authorized users are nominated by their State. IAA SRD (Pans-Ops & Airspace Inspector) is the ICARD authorised user for Ireland

The Proponent - An entity or an individual proposing a change to the airspace architecture

Significant point - A specified geographical location used in defining an ATS route or the flight path of an aircraft and for other navigation and ATS purposes.



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Note - There are three categories of significant points: ground-based navigation aid, intersection and waypoint. In the context of this definition, intersection is a significant point expressed as radials, bearings and/or distances from ground-based navigation aids.

Strategic Waypoints - Where the waypoint is used strategically (i.e. part of the route structure itself) and is likely to be used routinely in RTF exchanges, a standard ICAO 5LNC is allocated.

Tactical waypoints - A waypoint that is intended for use on a tactical basis, but still needing to be contained in the navigation database for procedure definition purposes other than as an ATS significant point, is allocated an alphanumeric designator.

Waypoint (WPT) - A specified geographical location used to define an area navigation route or the flight path of an aircraft employing area navigation. Waypoints are identified as either:

Fly-by waypoint: A waypoint which requires turn anticipation to allow tangential interception of the next segment of a route or procedure,

or

Flyover waypoint: A waypoint at which a turn is initiated in order to join the next segment of a route or procedure.

4 DETAIL

Where a significant point is required at a position not marked by the site of a radio navigation aid, the significant point shall be designated by a unique pronounceable or alphanumeric five letter name code.

The pronounceable Five Letter (ICARD) designator is for **ATC purposes** and shall be selected so as to avoid any difficulties in pronunciation by pilots or ATS personnel when using radio telephone (RTF). The name-code designator shall be easily recognisable in voice communications and shall be free of ambiguity with other significant points used in the same general area.

The alphanumeric five letter "name code" is for **Flight Management System (FMS) purposes** and must not be used for ATC purposes.



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If there is a need to alter the purpose/usage of a WPT or a significant point, a new name-code designator (either a pronounceable or alphanumeric) must be assigned. In cases when an ANSP wishes to keep the allocation of a specific name-code (either a pronounceable or alphanumeric) for re-use at a different location, such name-codes shall not be used by the state for a period of at least six months.

ICAO ICARD Database

Public users have access to a limited number of functionalities to query the content of the database maintained by the staff of ICAO.

Only authorised users can make use of the application for reserving new codes from the reserved list of 140,000 codes while ensuring worldwide uniqueness. Authorised users will receive acknowledgment of their request from ICAO

You need to register yourself on the ICAO Portal to gain access to the non-public part as a public user.

New ICAO Portal User: Account Creation

Please follow the instructions below to gain access to the online site and subscribe to the ICARD group.

Access the ICAO Portal at the following link: <http://portal.icao.int/>

Since you do NOT have a Portal username/password, click the REQUEST AN ACCOUNT option.

Click the OK button on the pop-up message to indicate this is your first Portal account.

This window then appears

A screenshot of a web browser window titled 'ICAO Portal - Internet Explorer' showing the URL 'http://portal.icao.int/GroupNameEntry.aspx'. The page displays a 'Group Subscription request' form. The form has a title bar and a main content area. Inside the content area, there is a label 'Group Name' followed by a text input field. Below the input field, there is a prompt: 'Please enter a group name you wish to subscribe *'. At the bottom of the form, there are two buttons: 'OK' and 'Cancel'. A small note '* Fields are mandatory' is visible in the top right corner of the form area.

Enter ICARD as the requested group

The new user registration window now appears

Enter the necessary information in the New User Account form.

Click the SUBMIT REQUEST button



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When these steps are completed, you will receive confirmation that you have been granted or denied access (if granted, the email will include your username and password).

Group Subscription Request

Please follow the instructions below to subscribe to a group.

Log on to <http://portal.icao.int/> with your secure site login credentials.

Click on the PROFILE link on the right hand top corner.

A new window pops up, click on GROUP SUBSCRIBE/UNSUBSCRIBE in the left side menu.

Enter the group name you are requesting access for in the SUBSCRIBE TO field and the JUSTIFICATION for your request.

Click the SUBMIT CHANGES button.

When these steps are completed, you will receive an email confirmation that you have been granted or denied access to the group in question.

You will be already be subscribed to the ICARD group

When you enter ICARD application you will see this interface

The screenshot shows the ICAO Secure Portal interface. The top navigation bar includes 'ICAO Secure Portal', 'ICAO Public Site', and 'Profile'. The left sidebar contains a menu with items like 'ICARD Home', 'ICARD Registration', '5LNC', '5LNC Contacts', '5LNC Application Updates', '5LNC Geographical Chart', 'ATS Route Designators', 'Calendar', 'Shared Documents', 'Team Discussion', 'Tasks', and 'ICAO Secure Portal'. The main content area is titled '5LNC' and 'International Codes and Routes Designators'. It includes a section for 'Five Letter Name-Codes for Designated Points' with a detailed explanation of the system and a 'The Tool' section for public users. A 'New users' section at the bottom provides instructions for registration.

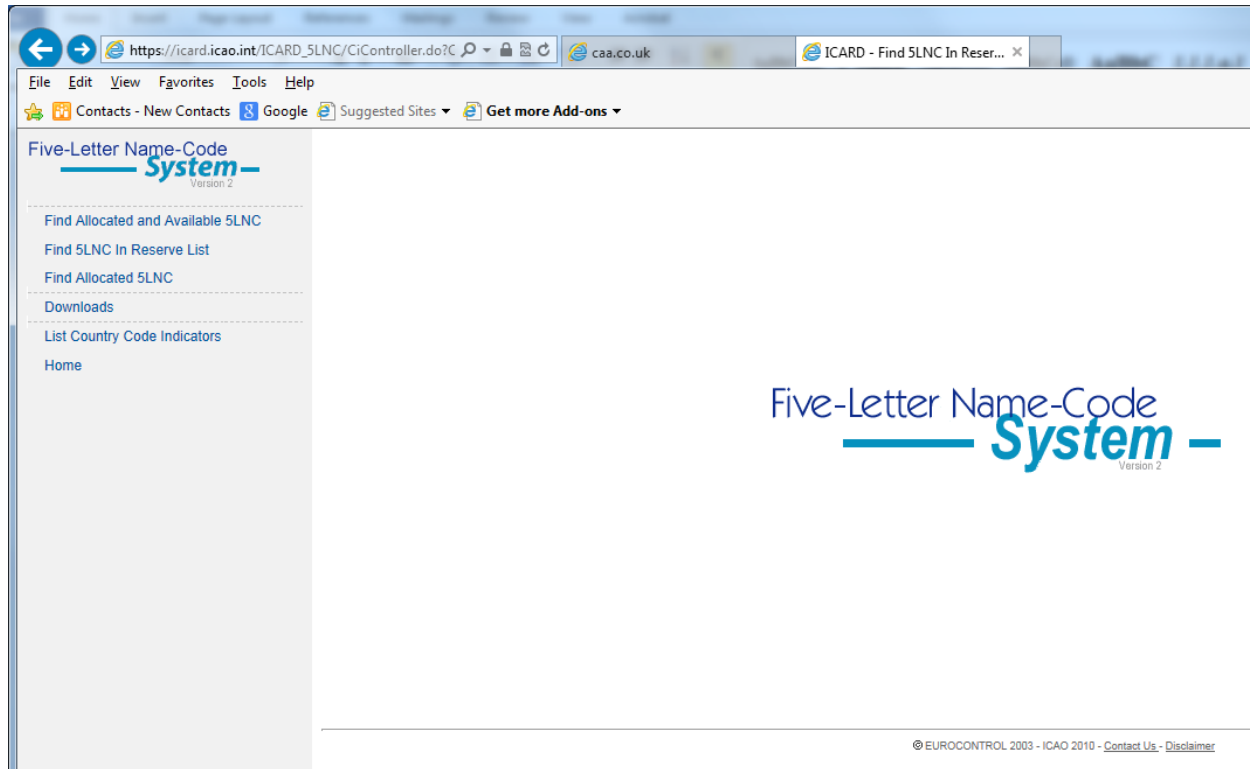
Select the 5LNC option from the left hand panel. Scroll down the page and select [5LNC - for public users](#)



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When the above window appears select

[Find 5LNC In Reserve List](#) from the options in the left hand panel

The interface now allows the user to search for available 5LNCs

How to reset your password

Access the Secure Portal: to <http://portal.icao.int/>

Click the CANNOT LOGIN link.

Enter your full email address in the USER ID OR EMAIL ID field. Click the SUBMIT button.

You will be presented your password hint question. Enter the answer to your hint question in the ANSWER field. Click the SUBMIT button.

A new password should be emailed to you shortly



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Pronounceable Five Letter (5LNC) designator

(Enroute Point, Final Point SID, Initial Waypoint STAR, Common Way Points, Holding Point, Initial Approach Fix, Intermediate Approach Fix, Merge Point and Points used for ATC Purposes)

The application of the pronounceable five letter name code (For ATC purposes) is based upon guidance contained within Doc 8168.

ICARD Registration International Codes and Routes Designators Procedure

Interrogate the ICARD Public User site for suitable codes. Send an email request to IAA Safety Regulation Division (ansdinfo@iaa.ie) with a complete list of the points offered by the ICARD system to include the following for each:

- ICARD Name Code
- Coordinates in dd mm ss.ssss
- Purpose
- Function
- Remarks
- ATS Route or other Route
- Add Any Coordinating Country
- the method used to define the position i.e. intersection of airway, centre lines, radials and distances from VOR's;
- WGS-84 geographical coordinates for positions are specified in degrees, minutes and seconds and thousands of seconds.

SRD (Pans-Ops & Airspace Inspector) will interrogate ICARD for the name codes requested and reserve them if appropriate. When ICAO approves the Name Codes request SRD (Pans Ops & Airspace Inspector) will forward a copy to the proponent for their records;

SRD will also

- Ensure ICARD Name-Codes are promulgated in accordance with the AIRAC cycle;
- ensure codes for positions on FIR/UIR boundaries are coordinated with neighbouring states;
- Check for proximity of similarly sounding/spelt codes within Ireland or adjoining airspace.
(Note; this is essential to avoid misunderstandings between ATC, aircrew, flight management and flight planning systems);



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Alphanumeric five letter name code (5LNC)

(Terminal RNAV, Final Approach Fix/Point Step Down Fix and Missed Approach Point)

The application of alphanumeric five letter name code (For Flight Management System purposes) is based upon guidance contained within Doc 8168. The naming convention in Ireland is as follows:-

- ✓ **AANNN**
 - AA the last two letters of the aerodrome ICAO locator
 - NNN A numeric code from 000 to 999
- ✓ Example:
 - AA=DW for EIDW (Dublin)
 - NNN=123
 - **AANNN = DW123**