

Version 4

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PelicanCorp

PelicanCorp GIS Standards

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GIS Services



Document Approval

	Name/Role	Date
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Document History

Date	Version	Revision	By
31 Oct 2019	1	Base Document	Heinrich Zepter
24 Aug 2020	2	Major update to cover more products and regions	GIS Team
03 Feb 2021	3	Review	Heinrich Zepter
10 Jan 2022	4	Review	Heinrich Zepter

Referenced Documents

Document Name	Document Location
PelicanCorp Privacy Policy	Website link
PelicanCorp GDPR Policy	Website link

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Overview

These GIS Standards apply to the products, services, websites and apps offered by PelicanCorp (referred to collectively herein as the “services”).

This document also forms part of the user agreements for PelicanCorp customers.

PelicanCorp highly regards the trust that our customers grant us as custodians of their data.

We take these responsibilities seriously and this document is intended to outline the transparency our data management and processing practices, as well as the responsibilities of customers to meet these standards.

Automated Processes

PelicanCorp implements automated processing, so therefore it is important that our customers follow these standards to ensure accurate and timely processing of their data.

PelicanCorp’s automated process does identify invalid data, for example, geometry issues and will be flagged to the GIS Team for action. This action usually involves working with the customer, to obtain a complete dataset that is free from issues and can impact on processing/delivery timeframes.

File Formats

AOIs

Currently PelicanCorp can accept the following file formats for fully automated processing :

Format	Notes
SHP	ESRI Shapefile
TAB	MapInfo Tab file

Other formats require pre-processing by PelicanCorp staff which will take additional time and resources, which may incur additional cost to the customer.

ASSETS

A variety of formats are accepted for inclusion in TicketAccess hosted solutions. The following list of formats includes common and preferred spatial formats that can readily be imported and transformed for use in the TicketAccess hosted solution :

Format	Notes
SHP	ESRI Shapefile
TAB	MapInfo Tab file
KML/KMZ	Keyhole Markup Language (Google)
GPKG	OGC GeoPackage
GML	Geography Markup Language
GeoJSON	JavaScript Object Notation

Many other formats can be accepted but are likely to require additional time and resources to process, which may incur additional cost to the customer. In these cases, a sample should be provided for assessment before we can accept the data as being suitable for use. This includes AutoCAD (DWG/DXF) files.

Mixed geometry types

Some formats support mixed geometry types e.g. TAB files. PelicanCorp can accept mixed geometry types but our automated systems will usually separate out geometry types (assets) or consolidate them through buffering, etc (AOIs) If mixed types are supplied for AOIs then it will be assumed that points and line features will be buffered. If mixed types are supplied for Assets then the handling of these should be documented and described by the customer upon supply.

Data Sets

AOIs

Currently only full replacement coverages are acceptable for automated processing. The full datasets must be supplied (i.e, instead of delta-updates or additions or deletions). Partial updates require pre-processing by PelicanCorp staff which takes additional time and resources When supplying updates, it must be clearly stated if the update is full or partial to ensure that there is no miscommunication or misinterpretation of the full extent of the update/change.

ASSETS

Asset data can be supplied either as a full set of layers or a partial (subset) of layers. Partial updating of individual layers is not supported. When supplying updates, it must be clearly stated if the update is full or partial to ensure that there is no miscommunication or misinterpretation of the full extent of the update/change. All layers should be named as per the list of layers in the approved Solution Design relating to the specific solution.

Coordinate Systems

All files within the dataset must be in a recognized coordinate system. The coordinate system must be documented along with the supply of the dataset.

* Note: All Google Earth files utilize LL84 - WGS84

Buffer/Corridor Size

Usually applies to AOIs only. The distance required on each side of arcs/lines/polylines, or the radius around points must be specified. Buffers are generally not applied to polygons or generalised areas

If buffer values are expected and not supplied then minimums will be applied e.g. 20ft (US), 12.5m (AU/NZ), Other regions CA, US, Europe to take into consideration the accuracy of the data (versus actual alignment).

Clean Data

The data must be curated and cleaned by the customer before supplying to PelicanCorp. AOI datasets should be cleaned of multi-part and self-intersecting geometry before being submitted. PelicanCorp does employ validation and repair techniques in the processing of AOIs and Asset data. However this does not guarantee that the data will be processed successfully.

Customer ID

As PelicanCorp processes a vast number of customers data on an annual basis, it is important that customers identify themselves clearly when submitting data.

A customer ID, Utility ID, Station Code, etc, will need to be supplied along with the data.