

# Provider Connect Australia Business Partner Data Model

10 March 2023 v1.0.1 Approved for external information Document ID: DH-3762:2023

#### Introduction

Provider Connect Australia (PCA) is a service operated by the Australian Digital Health Agency (Agency) to streamline the process of healthcare provider organisations keeping their business partners up to date with details of the services they provide and the practitioners that provide them.

Healthcare provider organisations enter into a publisher agreement with the Agency as operator of PCA to host their information and to disclose it to their chosen business partners.

Business partners enter into a subscriber agreement with the Agency as operator of PCA to receive information through PCA and to handle that information in accordance with their information use statement(s) lodged in the PCA system.

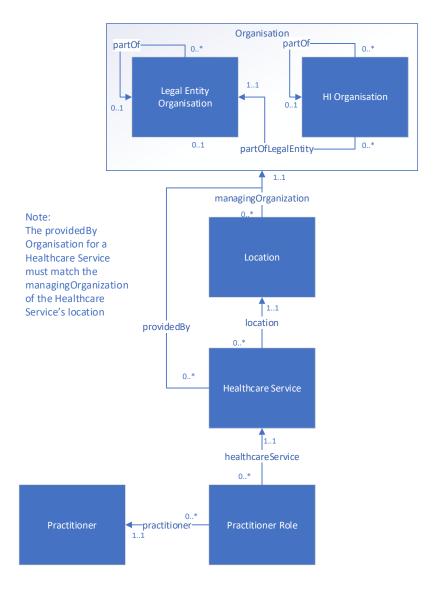
Refer to the *PCA business partner fact sheet* for more information about business partners in PCA and their information use statements.

# PCA business partner data model

PCA business partners (subscribers) receive information from PCA in accordance with their subscriber agreement. An entity relationship diagram is below followed by descriptions of each data element.

Additional detail on the PCA subscriber API can be found at:

Current working draft: https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/



# Abbreviations and acronyms

ABR	Australian Business Register <a href="https://www.abr.gov.au/">https://www.abr.gov.au/</a>
Ahpra	Australian Health Practitioner Regulation Agency <a href="https://www.ahpra.gov.au/">https://www.ahpra.gov.au/</a>
DPID	Delivery point identifier from the Postal address file <a href="https://auspost.com.au/business/marketing-and-communications/access-data-and-insights/address-data">https://auspost.com.au/business/marketing-and-communications/access-data-and-insights/address-data</a>
GNAF	Geocoded national address file <a href="https://geoscape.com.au/data/g-naf/">https://geoscape.com.au/data/g-naf/</a>
HI Svc	Healthcare Identifier Service <a href="https://www.servicesaustralia.gov.au/organisations/health-professionals/services/medicare/healthcare-identifiers-service-health-professionals">https://www.servicesaustralia.gov.au/organisations/health-professionals</a> professionals/services/medicare/healthcare-identifiers-service-health-professionals
PAF	Postal address file  https://auspost.com.au/business/marketing-and-communications/access-data-and-insights/address-data
PCA	Provider Connect Australia

# **Entity details**

### Legal entity organisation

https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/StructureDefinition-pca-organization.html

The legal entity that executes the publisher agreement is represented as a legal entity organisation. Business partners receive this information only when the publisher has disclosed at least one healthcare service to them.

Publishers can also optionally include subordinate/subsidiary legal entity organisations. Business partners receive these only when the publisher has disclosed at least one healthcare service that is either provided by the legal entity organisation or by a HI organisation that is part of the legal entity organisation.

The authoritative source for legal entity organisations is the Australian Business Register with additional details from publisher organisation staff.

Element	Card- inality	Туре	Source	Description
identifier: pca-oi	11	<u>Identifier</u>	PCA	PCA-allocated identifier for this organisation
identifier: abn	01	<u>Identifier</u>	ABR	ABN is obtained from the Australian Business Register.
				For participating publishing organisations, it will be supplied except in the case of a sole trader that does not have an ABN.
				For subsidiary organisations, it will always be supplied.
identifier: *	0*	<u>Identifier</u>	Publisher/ Business partner	Business partner issued identifier.
				See
				Business partner issued identifiers section below.
name	11	string	ABR	The legal entity name obtained from the Australian Business Register.
				For sole traders without an ABN, their full name from PRODA.
alias	01	string	ABR	The preferred business name, selected by the publisher organisation staff from the list of registered business names obtained in the Australian Business Register.
part of	01	<u>Reference</u>	Publisher	Reference to a legal entity organisation that this legal entity organisation is part of (if any). Provided by publisher organisation staff.

Element	Card- inality	Туре	Source	Description
address (postal)	01	AustralianAddress	Publisher/ GNAF/PAF	A complex type containing structured and unstructured versions of a postal address obtained from the Geocoded National Address File or Postal Address File (including G-NAF and DPID identifiers where available).
telecom	0*	Contact Point	Publisher	Complex type containing the phone number, fax number, email address and website for the organisation. Provided by the publisher organisation staff.
active in system of record	11	boolean	ABR	Was this legal entity organisation active in the Australian Business Register when last checked? Note that legal entity organisations will also have attached provenance information showing when this was last checked.
active	11	<u>boolean</u>	PCA	Is this legal entity organisation active in PCA?
type	1*	CodeableConcept	PCA	Set by PCA to 'LEO' to indicate that this resource is a legal entity organisation.
				It may also additionally have the 'PPO' or 'PSO' code if this organisation is a participating publishing organisation or participating subscribing organisation respectively.

**Note:** some previous drafts included a street address for a legal entity organisation. This element has been removed.

# **HI** organisation

# https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/StructureDefinition-pca-organization.html

Where a publisher authorises the Agency as their HI Service Contracted Service Provider, PCA will import all HPI-O records from the HI Service whose ABN's match the publisher's legal entity organisation(s). Business partners receive these when the publisher has disclosed at least one healthcare service that is provided by the HI organisation or one if it's child (network) HI organisations.

The authoritative source for HI organisations is the HI Service.

Element	Cardinality	Туре	Source	Description
identifier: pca-oi	11	<u>Identifier</u>	PCA	PCA-allocated identifier for this organisation
identifier: hpi-o	11	<u>Identifier</u>	HI Svc	HPI-O is obtained from the HI Service.
identifier: *	0*	<u>Identifier</u>	Publisher/ Business partner	Business partner issued identifier.  See  Business partner issued identifiers section below.
name	11	string	HI Svc	The primary name obtained from the HI Service.
alias	0*	string	HI Svc	Additional names found in the HI Service provider directory (if any).
part of	01	Reference	HI Svc	Reference to the HI organisation that this HI organisation is part of (if any).
part of legal entity	11	Reference	HI Svc	Reference to the legal entity organisation that this HI organisation is part of.
address	01	<u>AustralianAddress</u>	HI Svc	A complex type containing structured and unstructured versions of an address obtained from the HI Service provider directory .
telecom	0*	Contact Point	Publisher	Complex type containing the phone number, fax number, email address and website for the HI organisation. Obtained from the HI Service provider directory.
active in system of record	11	<u>boolean</u>	HI Svc	Was this HI organisation active in the HI Service provider directory when last checked? Note that HI organisations will also have attached provenance information showing when this was last checked.
active	11	boolean	PCA	Is this HI organisation active in PCA?
type	1*	CodeableConcept	PCA	Set by PCA to 'HIO' to indicate that this resource is a HI organisation.

#### **Practitioner**

# https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/StructureDefinition-pca-practitioner.html

PCA imports practitioner details from Ahpra and/or the HI Service. Practitioner data is obtained from Ahpra for Ahpra practitioners. Where the publisher authorises PCA to obtain the HPI-I, this is obtained from the HI Service. Practitioner data for non-Ahpra practitioners is obtained from the HI Service.

The authoritative sources for practitioners are Ahpra and the HI Service.

Element	Cardinality	Туре	Source	Description
identifier: pca-pi	11	<u>Identifier</u>	PCA	PCA-allocated identifier for this practitioner
identifier: ahpra registration number	1*	Identifier	Ahpra	The registration number this practitioner has with Ahpra board. Obtained from Ahpra.
identifier: hpii	01	<u>Identifier</u>	HI Svc	The practitioner's HPI-I obtained from the HI Service. Only present when authorised by the publisher in accordance with the <i>Healthcare Identifiers Act 2010</i> . Only available to eligible business partners.
name	1*	<u>HumanName</u>	Ahpra or HI Svc	The practitioner's legal name obtained from Ahpra or the HI Service.
active	01	boolean	PCA	Is this practitioner active in PCA?
extension: ahpra registration details	01		Ahpra	Ahpra Registration Details. Note that only the ahpraProfession element in this extension will be populated. Obtained from Ahpra.

#### Location (e.g. practice, clinic or facility)

https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/StructureDefinition-pca-location.html

Publishers record the practice, clinic or facility location at which healthcare services are provided. This represents a physical, mobile, or virtual location. Locations record common elements such as the facility name, address, contact details and facilities that may be shared by the different healthcare services delivered at the location. Business partners receive location records when they are referenced by a healthcare service that the publisher has disclosed to them.

PCA Location is not intended to model internal publisher Location concepts, but rather model how publishers want to present themselves externally.

The authoritative source for locations is the publishing healthcare provider organisation.

Element	Cardinality	Туре	Source	Description
identifier: pca-li	11	<u>Identifier</u>	PCA	PCA-allocated identifier for this location
identifier:*	0*	<u>Identifier</u>	Publisher/	Business partner issued identifier.
			Business partner	See Business partner issued identifiers section below.
status	11	<u>code</u>	Publisher	Is this location active (set by publisher organisation staff)
location name	11	string	Publisher	Name of the practice, clinic or facility provided by the publisher organisation staff.
address	01	Australian Address	Publisher/ GNAF	A complex type containing structured and unstructured versions of a street address obtained from the Geocoded National Address File (including G-NAF and DPID identifiers where available). Can include extra qualifiers (such as suite, level, building) that are not found in the Geocoded National Address File. Will also include a delivery point identifier (DPID) where available.
				Address will always be present except for services that are only delivered as mobile or virtual services.
address (postal)	01	AustralianAddress	Publisher/ GNAF/PAF	A complex type containing structured and unstructured versions of a postal address obtained from the Geocoded National Address File or Postal Address File (including G-NAF and DPID identifiers where available).
telecom	0*	ContactPoint	Publisher	Complex type containing the phone number(s), fax number(s) email address(es) and website(s) for the location provided by the publisher organisation staff

Element	Cardinality	Туре	Source	Description
mode	01	<u>code</u>	Publisher	A code to indicate if this is an actual location ('instance') or a 'kind' of location. 'kind' is used for services that are only delivered as mobile services or virtual services (such as telehealth) and is used in conjunction with type below.
type	01	CodeableConcept	Publisher	For locations with mode='kind', a code indication that this location is for a service that is delivered as mobile ('MOBL') or virtual ('VI').
				Valueset:
				https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/ValueSet-pca-service-delivery-location-role-type.html
physical type	01	CodeableConcept	Publisher	Valueset:
				https://build.fhir.org/ig/hl7au/au-fhir- base/ValueSet-au-location-physical-type- extended.html
amenity	0*	CodeableConcept	Publisher	Physical features within or in close proximity of the location.
				Valueset:
				https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/ValueSet-pca-amenity.html
managing organization	11	Reference (PCA Organization)	Publisher	A reference to the legal entity organisation <u>or</u> the HI organisation that manages this location in PCA. Chosen by the publisher organisation staff.

#### **Healthcare Service**

https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/StructureDefinition-pca-healthcare-service.html

Publishers record the healthcare services that they provide in PCA. Business partners receive these when the publisher discloses them. A healthcare service represents a particular type of service provided at a particular practice, clinic or facility (location).

The authoritative source for healthcare services is the publishing healthcare provider organisation.

Element	Cardinality	Туре	Source	Description
identifier: pca- hsi	11	<u>Identifier</u>	PCA	PCA-allocated identifier for this healthcare service
identifier: *	0*	<u>Identifier</u>	Publisher/ Business partner	Business partner issued identifier.  See  Business partner issued identifiers section below.
service name	11	string	Publisher	Name of the healthcare service. By default this will be "[location name] – [service type]" unless changed by the publisher organisation staff.
location	11	Reference (PCA Location)	Publisher	Reference to the location where the healthcare service is provided.
type	1*	* <u>Codeable-</u> <u>Concept</u>	Publisher	One SNOMED-CT-AU healthcare service type chosen by the publisher organisation staff. The PCA system will automatically add generalised codes that are parents of the chosen code in SNOMED-CT-AU.
				$\begin{tabular}{ll} Value set: \\ \underline{https://health terminologies.gov.au/fhir/Value Set/service-type- \\ \underline{1} \end{tabular}$
				Where a suitable code is not in the valueset, the publisher can submit a proposed new code to NCTS for consideration to add to the valueset. Whilst the request is being considered, the publisher can select a parent code.
				Exactly one healthcare service type will be marked as the "primary" type.
type. preferred	01	boolean	Publisher	Whether this is the primary service type for this HealthcareService
provided by	11	Reference (PCA Organization)	Publisher	Reference to the legal entity organisation <u>or</u> the HI organisation that provides this healthcare service. Must be the same as the organisation that manages the location where the healthcare service is provided. If a healthcare service is delivered by a different organisation to the location, then that organisation must create a separate location record.

Element	Cardinality	Туре	Source	Description
telecom	0*	ContactPoint	Publisher	Complex type containing the phone number(s), fax number(s) email address(es) and website(s) for the healthcare service. By default, these will be the same as the for the location unless changed by the publisher organisation staff.
available time	0*	BackboneElement	Publisher	Complex element specifying the days of the week and times the service is available.
not available	0*	BackboneElement	Publisher	Include exceptions for holidays, shutdowns etc. Provided by the publisher organisation staff.
active	11	<u>boolean</u>	Publisher	Is this healthcare service active (set by publisher organisation staff)
service	11	Codeable-	Publisher	The billing option available at this service.
provision code		Concept		Valueset:
				http://build.fhir.org/ig/hl7au/au-fhir-base/ValueSet-service-
				provision-conditions.html
coverage area	0*	Reference	Publisher	One or more localities (suburbs) where this service is available.
		(Location)		Will be supplied for mobile or virtual services. Also supplied where eligibility for service is restricted to residents of the coverage area.
appointment required	01	<u>boolean</u>	Publisher	Is an appointment required for this service? Will be present and match the value in appointment Information when that is "yes" or "no". Otherwise absent.
eligibility	0*	Codeable-	Publisher	Eligibility to access this service.
		Concept		Valueset:
				https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/ValueSet-pca-eligibility.html
communication	0*	Codeable- Concept	Publisher	The languages that this healthcare service is offered in.
referral information for providers	0*	string	Publisher	Referral instructions and information for healthcare service providers that may wish to refer patients / clients to the healthcare service.
referral information for consumers	0*	string	Publisher	Referral instructions and information for consumers / patients / clients that may be referred to the healthcare service.

#### **Practitioner Role**

# https://pca.digitalhealth.gov.au/fhir/4.0/currentdraft/StructureDefinition-pca-practitioner-role.html

Publishers may record the link between a practitioner and a healthcare service that they provide. This is recorded as a practitioner role. Publishers only record this for those practitioners that they wish to disclose to their business partners. Business partner subscribers receive those practitioner roles that the publisher discloses to them.

The authoritative source for locations is the publishing healthcare provider organisation.

Element	Cardinality	Туре	Source	Description
identifier: pca-pri	11	Identifier	PCA	PCA-allocated identifier for this practitioner role
identifier: medicare provider number	01	Identifier	Publisher	Publishers must record the Medicare provider number for this practitioner at this healthcare service/location or indicate that the practitioner does not provide Medicarefunded services at this healthcare service/location.
				Note: PCA will ideally validate provider numbers against Medicare records but this has not yet been agreed.
identifier: *	0*	<u>Identifier</u>	Publisher/ Business partner	Business partner issued identifier.  See  Business partner issued identifiers section below.
practitioner	11	Reference (PCA Practitioner)	Publisher	Reference to the record of the Practitioner acting in this role.
healthcare service	11	Reference (PCA Healthcare Service)	Publisher	Reference to the Healthcare Service that this role relates to.
preferred name	01	<u>Human</u> <u>Name</u>	Publisher	The practitioner's preferred name (optional) at this healthcare service. Provided by the publisher organisation's staff.
practitioner role communication	0*	Codeable- Concept	Publisher	Languages the practitioner can use in patient communication when acting in a role at a healthcare service.
period	01	Period	Publisher	Optional period (date range) during which the practitioner is in this role. Provided by the publisher organisation's staff. Can have only a start time, an end time or neither or both.
active	11	boolean	Publisher	Is this practitioner role active (updated by PCA at the time the resource is downloaded to reflect the period value (if present), or if the associated HealthcareService has an active value of "false", then is also set to "false")

Element	Cardinality	Туре	Source	Description
code: practitioner role	1*	<u>Codeable</u> <u>Concept</u>	Publisher	One SNOMED-CT-AU practitioner role type chosen by the publisher organisation staff. The PCA system will automatically add generalised codes that are parents of the chosen code in SNOMED-CT-AU.
				Valueset: <a href="https://healthterminologies.gov.au/fhir/ValueSet/practitioner-role-1">https://healthterminologies.gov.au/fhir/ValueSet/practitioner-role-1</a>
				Where a suitable code is not in the valueset, the publisher can submit a proposed new to NCTS for consideration to add to the valueset. Whilst the request is being considered, the publisher will select a parent code.
code: hi service role	01	Codeable Concept	Publisher	Code to indicate that the practitioner provides healthcare at this healthcare service / location and that their HPI-I is required for a purpose authorised under the <i>Healthcare Identifiers Act 2010</i> . This code must be set by the publisher in order to obtain the practitioners HPI-I and provide it to subscribers.
location	01	Reference (Location)	Publisher	Redundant reference to the location of the healthcare service that this role relates to. Provided to simplify searching and other logic. This value will always match the location in the healthcare service.
organization	01	Reference (Organizatio n)	Publisher	Redundant reference to the organisation that provides the healthcare service that this role relates to. Provided to simplify searching and other logic. This value will always match the organisation that provides the healthcare service.

# Business partner issued identifiers

PCA business partners can ask their clients (i.e. client of business partner / publisher in PCA) to include business partner issued identifiers in their PCA records to assist the business partner in matching PCA records to their own client records. PCA business partners can also write their own identifiers directly into their client's records in PCA.

Business partner issued identifiers can be recorded for legal entity organisations, locations, healthcare services and practitioner roles.

Business partner issued identifiers are visible to the business partner's client and to the business partner that issued them.

Business partner issued identifiers are not visible to other business partners unless agreed to by the issuing business partner.

Publication date: 10 March 2023

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The Australian Digital Health Agency is jointly funded by the Australian Government and all state and territory governments.

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