



Australian Government  
Australian Taxation Office



MINISTRY OF BUSINESS,  
INNOVATION & EMPLOYMENT  
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# **Peppol International (PINT) Billing A–NZ Migration**

**Service Provider Engagement  
24 October 2023**



# Acknowledgment of Country

We acknowledge the Traditional Owners and Custodians of Country throughout Australia and their continuing connection to land, waters and community. We pay our respects to them, their cultures, and Elders past and present.

# Purpose

**To provide a basic understanding of PINT and upcoming changes to inform a future discussion on the migration timeline**

- **PINT Overview**
- **PINT A–NZ Changes**
- **Wildcard Scheme**
- **Impacts**
- **Migration Process**

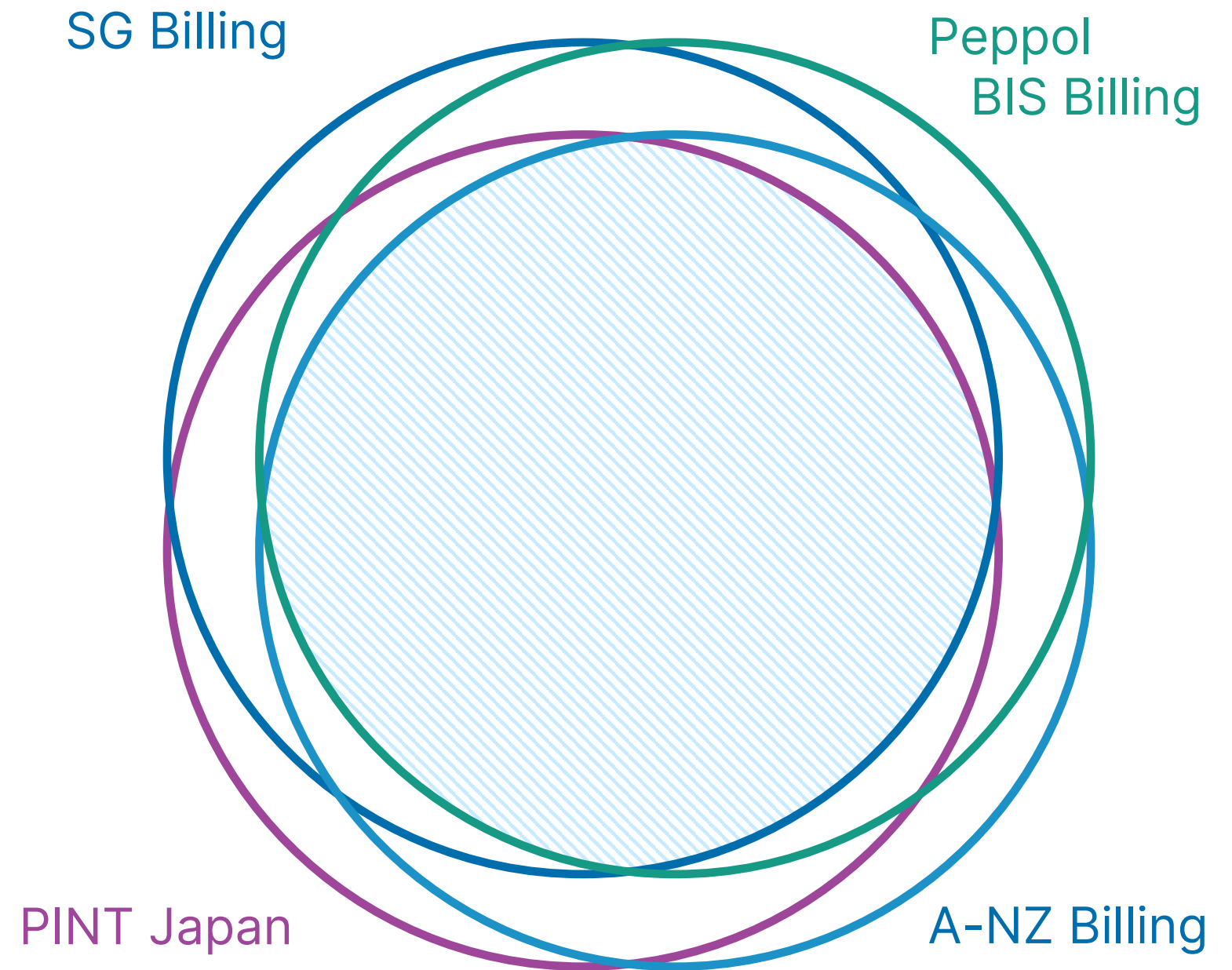
[PINT A–NZ SP Engagement Paper](#)

# 01

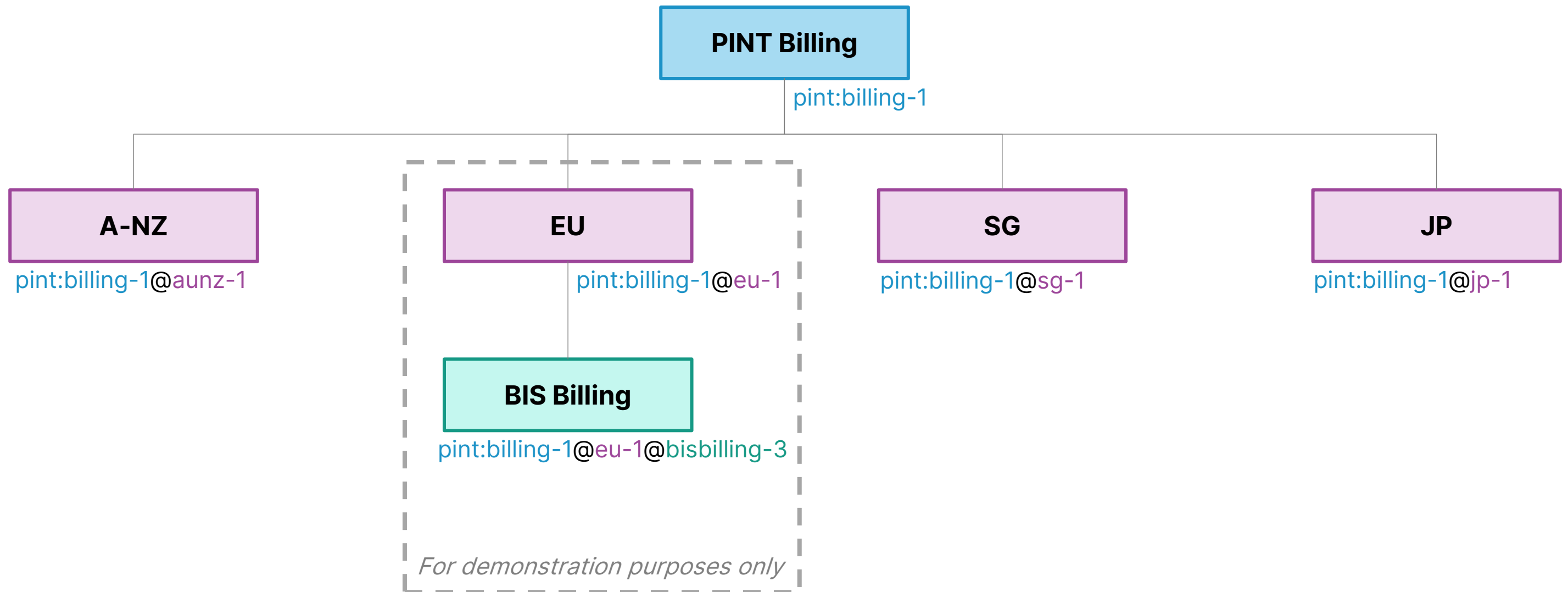
## **PINT Overview**

# PINT Design

- **Interoperability**
- **Reuse**
- **Flexibility**



# PINT Billing Specialisations



# PINT Model

**The PINT model covers the Business Interoperability Specifications (BIS), data model (semantic & syntax), code lists and rules. There are three layers in the model:**

## **Shared**

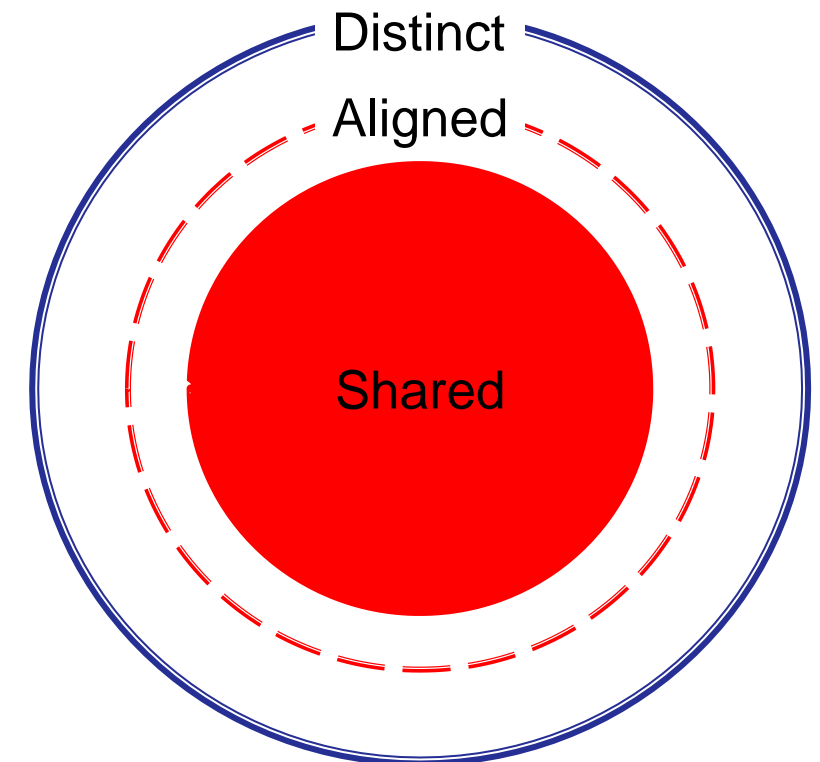
- **Defined and used in the same way across all jurisdictions**

## **Aligned - e.g. tax information or payment instructions specific to a jurisdiction**

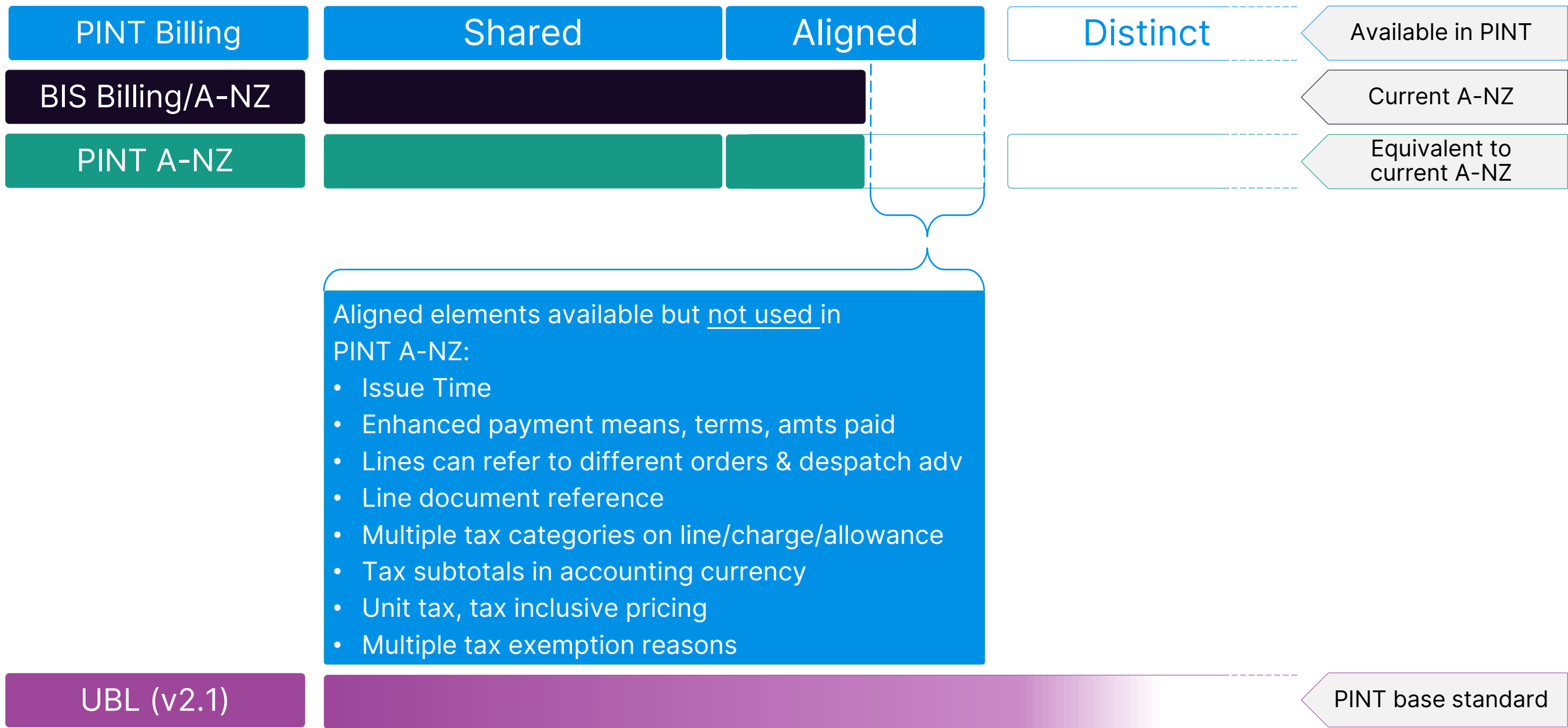
- **Defined in general terms and can be understood by all domains**
- **Can be specialised (restricted) to support specific requirements**

## **Distinct - e.g. domain-specific legislation/requirements**

- **Allows inclusion of elements that may not have general application**
- **Receivers might not understand this layer, unless they specifically advertise support for the specialisation**



# PINT invoice data model in practice – A-NZ





# 02

## **PINT A–NZ Changes**

**What is different between current A–NZ specifications and PINT A–NZ?**

# Changes to A-NZ specification

To minimise impacts and complexity of migration, the PINT A-NZ specifications have been drafted to closely align with the current specifications.  
However, Service Providers should be aware of the following changes:

- New business process type (**cac:ProfileID**) and specification identifier (**cac:CustomizationID**) values

Specification	Business process type	Specification identifier
PINT A-NZ Billing	urn:peppol:bis:billing	urn:peppol:pint:billing-1@aunz-1
PINT A-NZ Self-billing	urn:peppol:bis:selfbilling	urn:peppol:pint:selfbilling-1@aunz-1

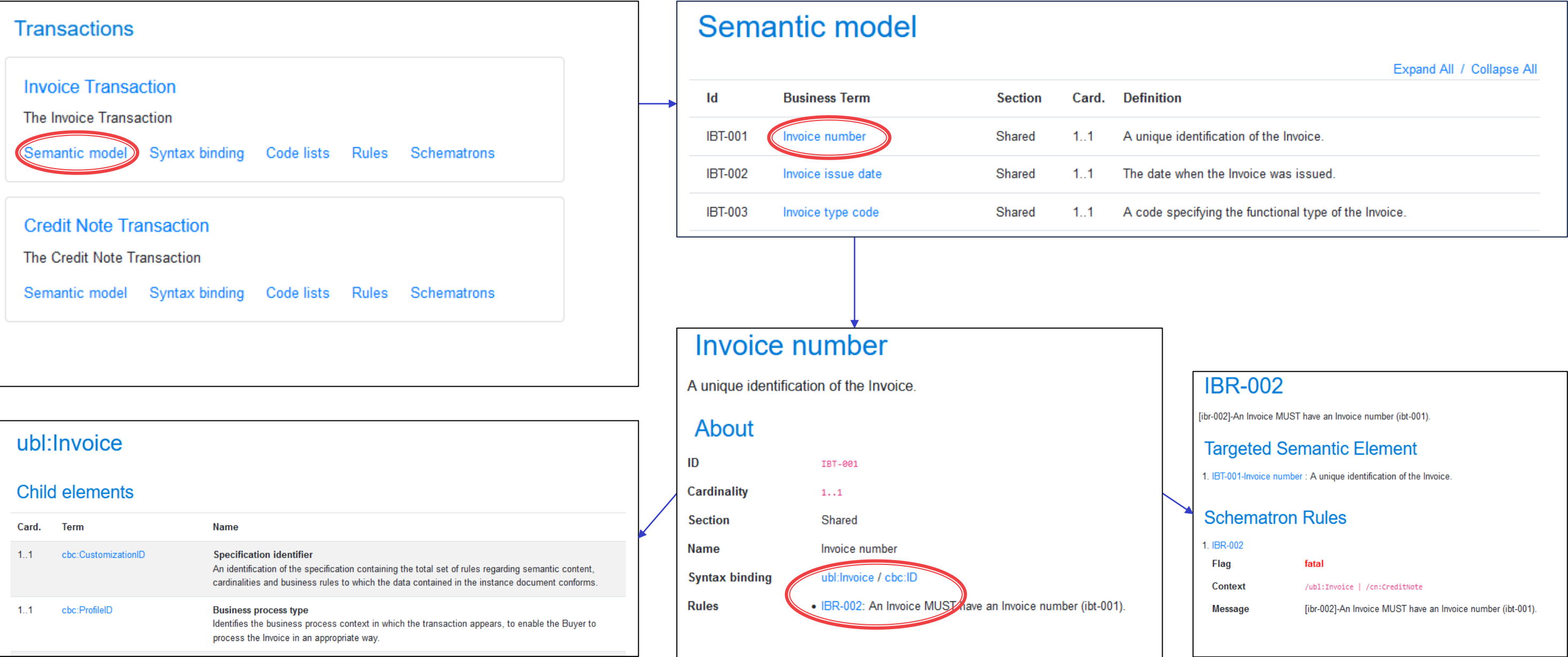
- Changes to Business Rules – new rule identifiers, some rationalisation and removal of redundant rules and rules that have a ‘warning’ severity.  
A [rule cross reference spreadsheet](#) showing the relationship between current and draft PINT A-NZ rules is available to assist Service Providers implementing these changes.
- Addition of minor syntax cardinality, code list, format rules
- Support for a new document type identifier scheme, **the wildcard scheme**, introduced through the [Peppol Policy for use of Identifiers](#)

## Documentation and Artefacts

In addition, PINT A-NZ will also include changes to the following documents & artefacts:

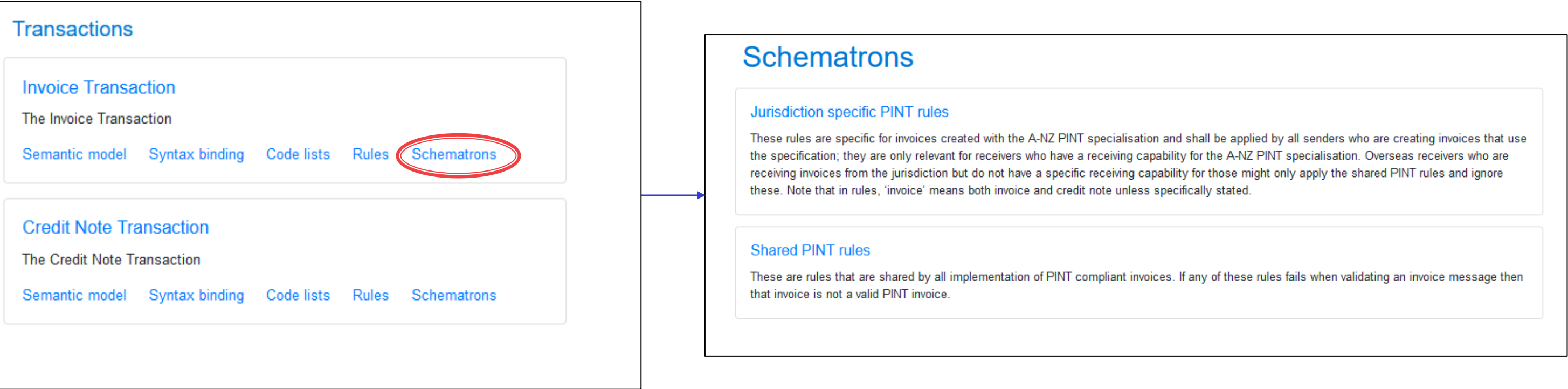
- The PINT A-NZ specifications will be published on an [OpenPeppol website](#), and will include links for the BIS documentation (Billing & Self-billing), compliance and transactions information similar to the current BIS Billing 3.0 specification.
- Semantic model (new in Peppol documentation) and syntax model
- Rule (shared and specialisation-specific) and validation artefacts
- Code lists
- XML Examples

# Semantic model example



<https://test-docs.peppol.eu/pint/pint-aunz/dev/pint-aunz/>

# Shared & Aligned (jurisdiction) rules



<https://test-docs.peppol.eu/pint/pint-aunz/dev/pint-aunz/trn-invoice/rule/>

# 03

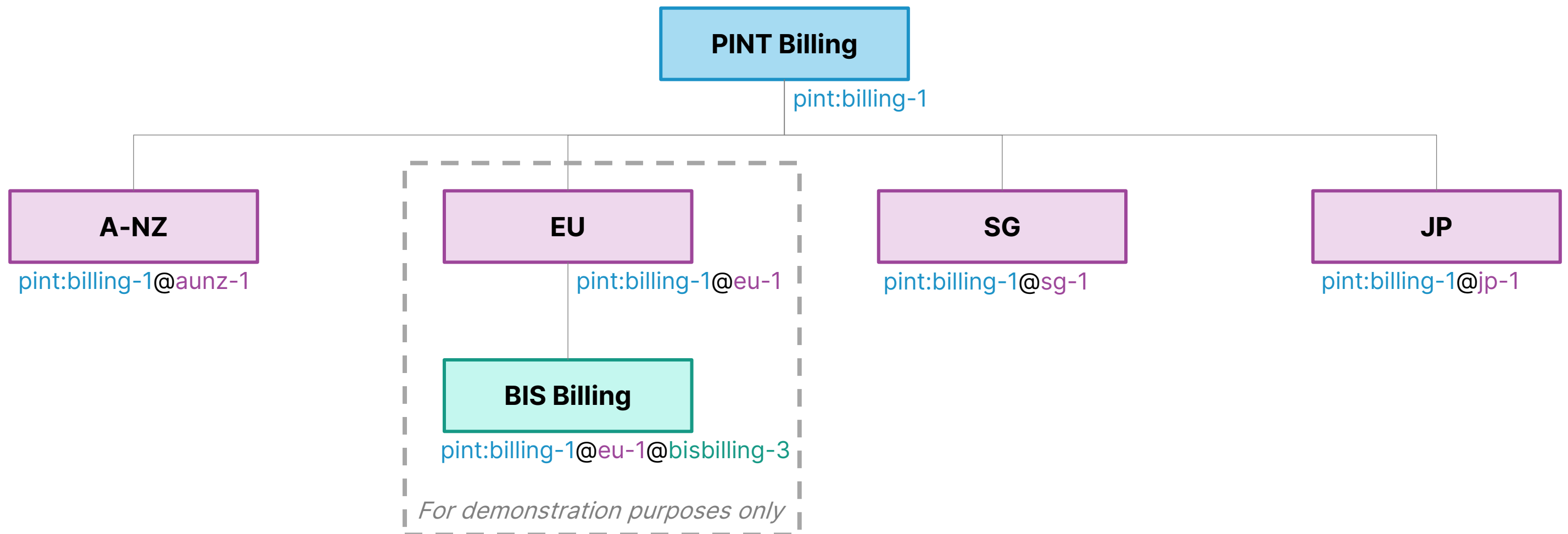
## **Wildcard Scheme**

**Overview and purpose of the scheme**

# PINT Specification Identifiers

PINT Style Specification Identifier (CustomizationID) Pattern:

**{base specification identifier}@{optional specialisation}@{optional further specialisation}@...**

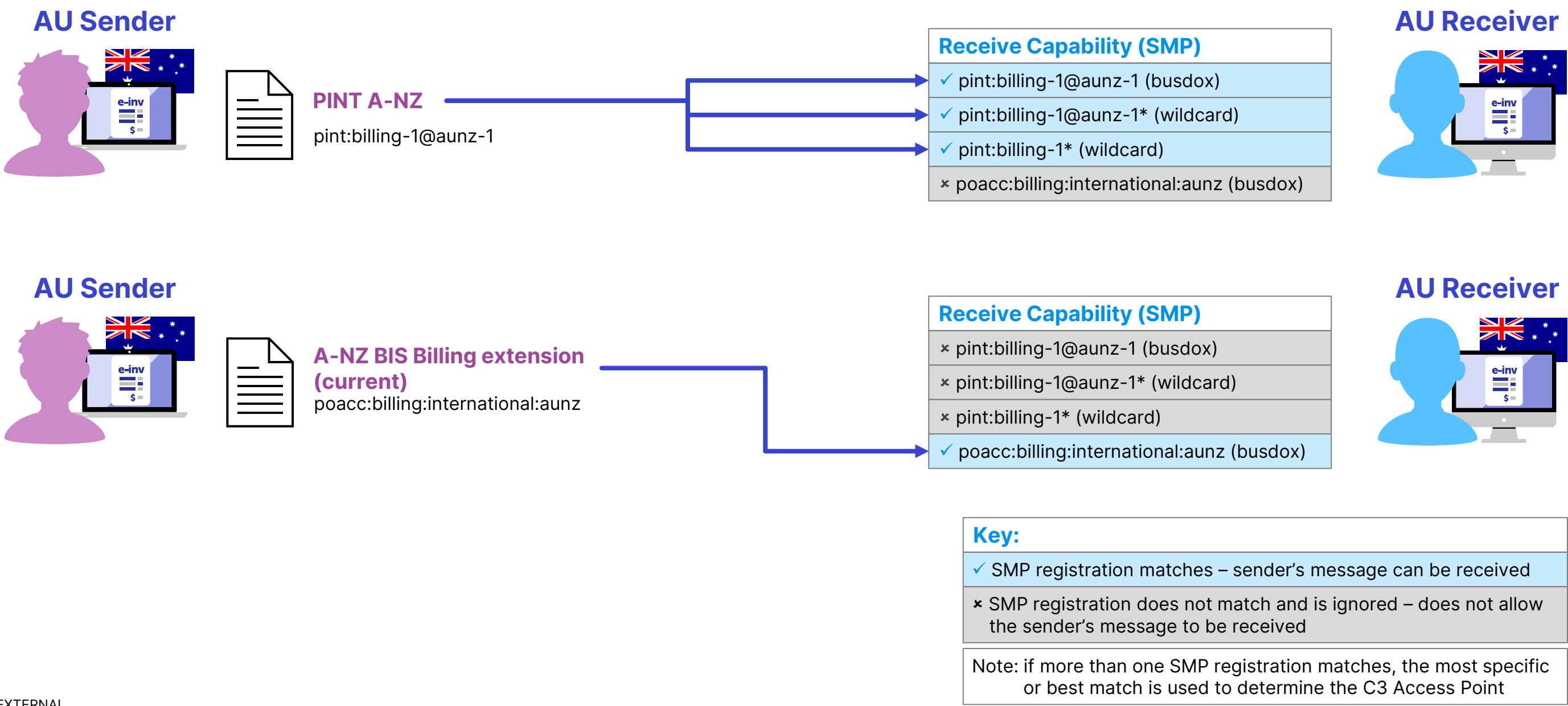


# How does the Wildcard Scheme compare?

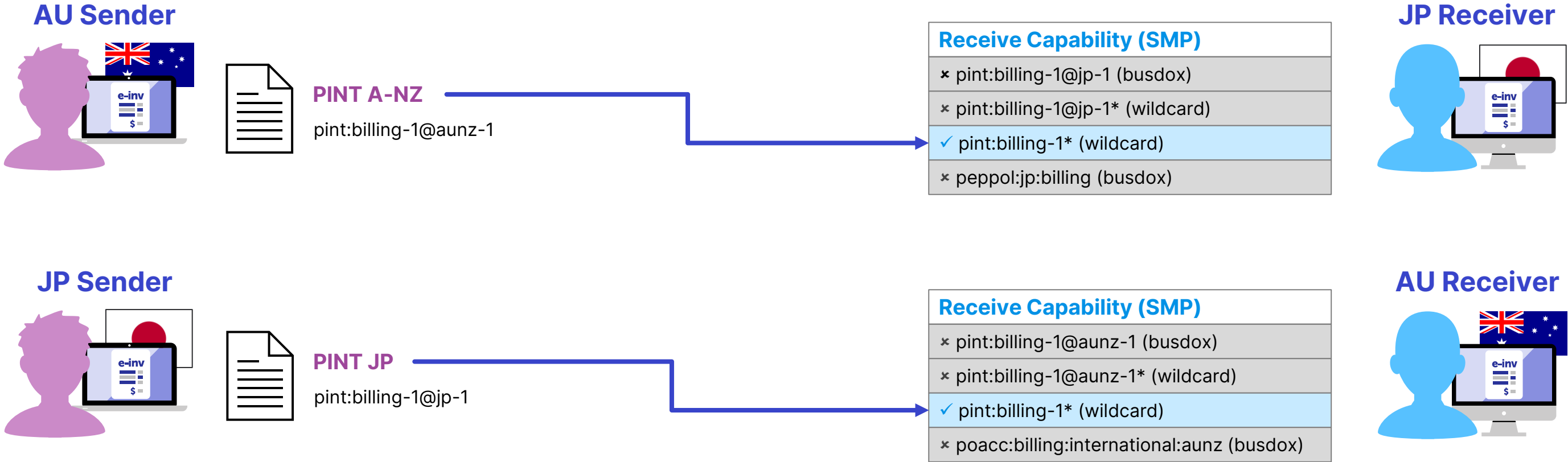
	Busdax Scheme	Wildcard Scheme
SMP registration	Full Document Type Identifier	Document Type Identifier including '*'
Sender document type identifier match	Exact match	Best match
Document / Message	Customization ID no '*'	Customization ID no '*'
SBDH / Envelope	Full document Type Identifier, no '*'	Full document Type Identifier, no '*'



# PINT Billing Compatibility – Domestic



# PINT Billing Compatibility – Cross-border



**Key:**

- ✓ SMP registration matches – sender’s message can be received
- ✗ SMP registration does not match and is ignored – does not allow the sender’s message to be received

Note: if more than one SMP registration matches, the most specific or best match is used to determine the C3 Access Point

# PINT A-NZ Receive Capabilities

C4 Receivers can choose to advertise capabilities using the wildcard or busdox schemes:

pint:billing-1@aunz-1 (busdox)	Matches PINT A-NZ messages only Explicitly states the ability to understand and process according to PINT A-NZ
pint:billing-1@aunz-1* (wildcard)	Matches PINT A-NZ messages and any further specialisations Explicitly states the ability to understand & process according to PINT A-NZ Further specialisations may be understood & processed according to PINT A-NZ
pint:billing-1* (wildcard)	Matches all PINT Billing specialisations All specialisations may be understood & processed according to PINT Billing

# PINT A-NZ Sender lookup process (domestic examples)



Prepare and send document



**PINT A-NZ**  
pint:billing-1@aunz-1

1. Sending Access Point (C2) retrieves the receiver's SMP Service Group records
2. Sender checks for a busdox ('exact match') receiving capability.
3. If there is no busdox match, the sender then looks for a wildcard ('best match'). The most specific match must be attempted first, followed by less specialised matches.
  - For PINT A-NZ Billing there are two possible tests:
    - pint:billing@aunz-1\*
    - pint:billing\*
4. When a match is found, the invoice should be sent to the Access Point defined in the matched SMP record.



Receive Capabilities (SMP)

peppol.eu:poacc:trns:mlr (busdox)

pint:billing-1\* (wildcard)

pint:billing-1@aunz-1 (busdox)

peppol.eu:poacc:trns:invoice\_response (busdox)

peppol.eu:poacc:trns:mlr (busdox)

pint:billing-1\* (wildcard)

pint:billing-1@aunz-1 (busdox)

peppol.eu:poacc:trns:invoice\_response (busdox)

✓ Match on pint:billing-1@aunz-1 (busdox)

N/A - not executed as match found at step 2

Relevant C3 AP for *pint:billing-1@aunz-1 (busdox)*



Receive Capabilities (SMP)

peppol.eu:poacc:trns:mlr (busdox)

pint:billing-1\* (wildcard)

peppol.eu:poacc:trns:invoice\_response (busdox)

peppol.eu:poacc:trns:mlr (busdox)

pint:billing-1\* (wildcard)

peppol.eu:poacc:trns:invoice\_response (busdox)

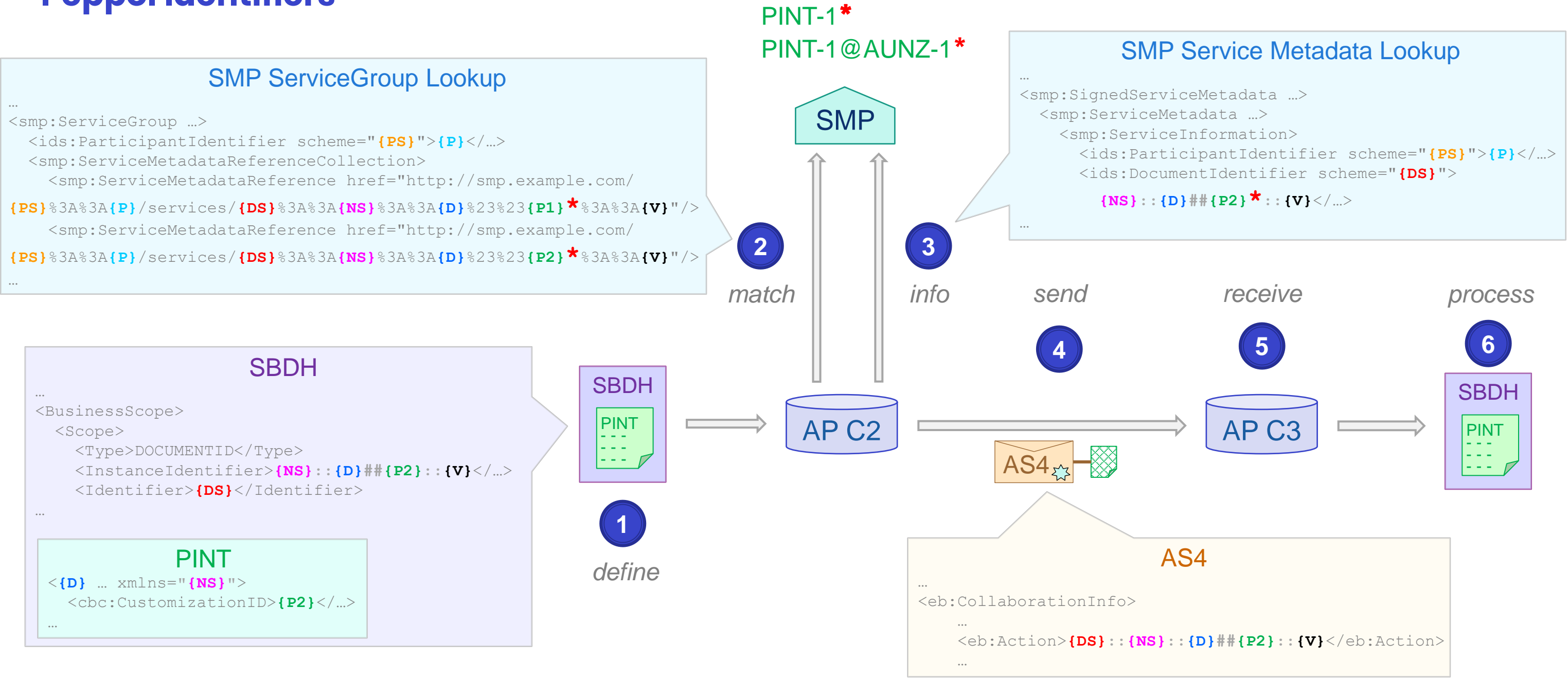
✗ No match on pint:billing-1@aunz-1 (busdox)

✗ No match on pint:billing-1@aunz-1\* (wildcard)

✓ Match on pint:billing-1\* (wildcard)

Relevant C3 AP for *pint:billing-1\* (wildcard)*

Peppol Identifiers



Participant scheme	{PS}	busdox-actorid-upis
Participant identifier	{P}	0151:72100100100
Document scheme	{DS}	peppol-doctype-wildcard
Document element	{D}	Invoice

Namespace	{NS}	urn:oasis:names:specification:ubl:schema:xsd:Invoice-2
PINT	{P1}	urn:peppol:pint:billing-1
PINT A-NZ	{P2}	urn:peppol:pint:billing-1@aunz-1
(UBL) Version	{V}	2.1

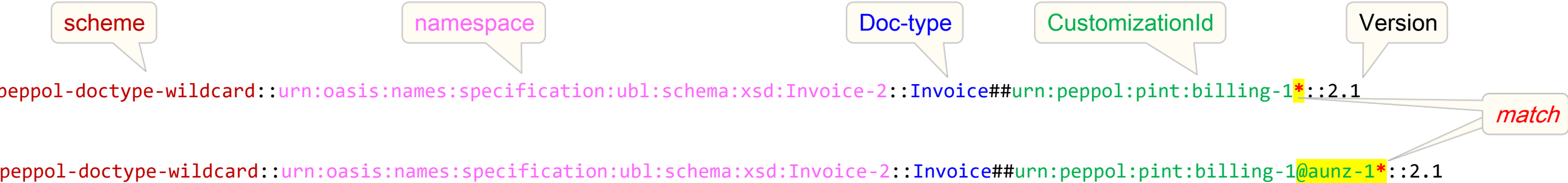
# AP SMP wildcard matching



SMP ServiceGroup Lookup

```
...
<smp:ServiceGroup ...>
  <ids:ParticipantIdentifier scheme="{PS}">{P}</...>
  <smp:ServiceMetadataReferenceCollection>
    <smp:ServiceMetadataReference href="http://smp.example.com/{PS}%3A%3A{P}/services/{DS}%3A%3A{NS}%3A%3A{D}%23%23{P1}*%3A%3A{V}"/>
    <smp:ServiceMetadataReference href="http://smp.example.com/{PS}%3A%3A{P}/services/{DS}%3A%3A{NS}%3A%3A{D}%23%23{P2}*%3A%3A{V}"/>
  ...

```



SBDH

```
...
<BusinessScope>
  <Scope>
    <Type>DOCUMENTID</Type>
    <InstanceIdentifier>{NS}::{D}##{P2}::{V}</...>
    <Identifier>{DS}</Identifier>
  ...

```

PINT

```
<{D} ... xmlns="{NS}">
  <cbc:CustomizationID>{P2}</...>
...

```

AS4

```
...
<eb:CollaborationInfo>
  ...
  <eb:Action>{DS}::{NS}::{D}##{P2}::{V}</...>
  ...

```

Participant scheme	{PS}	busdox-actorid-upis
Participant identifier	{P}	0151:72100100100
Document scheme	{DS}	peppol-doctype-wildcard
Document element	{D}	Invoice

Namespace	{NS}	urn:oasis:names:specification:ubl:schema:xsd:Invoice-2
PINT	{P1}	urn:peppol:pint:billing-1
PINT A-NZ	{P2}	urn:peppol:pint:billing-1@aunz-1
(UBL) Version	{V}	2.1

# PINT A-NZ Invoice Lookup Priority

## Document Customization Identifier:

`urn:peppol:pint:billing-1@aunz-1`

## SBDH Instance Identifier:

`urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:peppol:pint:billing-1@aunz-1::2.1`

## SMP Lookup Priority:

1. `busdox-docid-qns::urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:peppol:pint:billing-1@aunz-1::2.1`
2. `peppol-doctype-wildcard::urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:peppol:pint:billing-1@aunz-1*::2.1`
3. `peppol-doctype-wildcard::urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:peppol:pint:billing-1*::2.1`

# PINT A–NZ Credit Note Lookup Priority

## Document Customization Identifier:

`urn:peppol:pint:billing-1@aunz-1`

## SBDH Instance Identifier:

`urn:oasis:names:specification:ubl:schema:xsd:CreditNote-2::CreditNote##urn:peppol:pint:billing-1@aunz-1::2.1`

## SMP Lookup Priority:

1. `busdox-docid-qns::urn:oasis:names:specification:ubl:schema:xsd:CreditNote-2::CreditNote##urn:peppol:pint:billing-1@aunz-1::2.1`
2. `peppol-doctype-wildcard::urn:oasis:names:specification:ubl:schema:xsd:CreditNote-2::CreditNote ##urn:peppol:pint:billing-1@aunz-1*::2.1`
3. `peppol-doctype-wildcard::urn:oasis:names:specification:ubl:schema:xsd:CreditNote-2::CreditNote##urn:peppol:pint:billing-1*::2.1`



# 04

## Impacts

## C3/C4 Software and Service Providers

Consider PINT A-NZ receiving capability choices for each/all end users:

- At a minimum, a receiving capability will need to be published for end-users that will allow them to receive a PINT A-NZ Invoice. (busdox and/or wildcard scheme)
- Software and service providers will need to determine whether end-users will be able to publish a receiving capability that will enable invoices from other jurisdictions to be received
- end-user decisions regarding their receiving capabilities will depend on their requirements and the capabilities of their software and processes

Update SMP records:

- Add PINT receiving capability as appropriate
- Remove the current A-NZ extension capability (Post PINT A-NZ migration)

For domestic invoicing there should be no differences for end users receiving documents prepared with PINT A-NZ specifications.

## C1/C2 Software & Service Providers

C1/C2 Software & Service Providers will need to:

- Update payload content (PINT business process type and specification identifier) and the Standard Business Document Header (SBDH)
- Implement an updated service discovery (receiving capability lookup) function including both the busdox and wildcard schemes:
  - Check for 'exact' match receiving capability, using the busdox scheme first
  - If no match, then check for a wildcard match as per the [Peppol Policy for Use of Identifiers](#).
  - A similar lookup process needs to be implemented for both Billing invoice and credit note, and Self-billing invoice and credit note, when sending those documents.

## Other considerations for Peppol Service Providers

- Engaging with other service and software providers in the ecosystem such as C1/C4 DSP partners.
- Consider any contractual and integration implications of the changes.
- Consider supporting cross border capabilities (sending & receiving of international invoices) in the future (noting there is no requirement in PINT to provide such services and is purely an optional additional service that can choose to support).

# 05

## Migration plan

**Proposed timeframe and activities to support PINT A–NZ migration**

# Migration Plan

PINT A-NZ published→	A-NZ PASRs published→	A-NZ PASRs effective→	Current specs removed→
Phase	Get Ready	Phase In/ Implementation	Phase Out <sup>4</sup>
Current specifications	Mandatory	Mandatory	Deprecated
PINT A-NZ specifications	Optional	Optional	Mandatory
Overview	All parties review changes and prepare for implementation activities.	Senders build PINT A-NZ lookup and send capability. Receivers implement and publish PINT A-NZ receive capability.	Senders should support PINT A-NZ Receivers must support PINT A-NZ
Software & Service Provider Activities	Senders and Receivers: <ul style="list-style-type: none"> <li>Understand requirements <ul style="list-style-type: none"> <li>PINT A-NZ specs</li> <li>Wildcard scheme</li> <li>Capability lookup</li> </ul> </li> <li>Prepare for implementation</li> </ul>	Senders: <ul style="list-style-type: none"> <li>Add Wildcard lookup support</li> <li>Add ability to send PINT A-NZ</li> </ul> Receivers: <ul style="list-style-type: none"> <li>Add ability to receive &amp; process PINT A-NZ</li> <li>Add PINT A-NZ to SMP</li> </ul>	At end of phase: Senders: <ul style="list-style-type: none"> <li>Remove capabilities to send current A-NZ</li> </ul> Receivers: <ul style="list-style-type: none"> <li>Remove current A-NZ from SMP</li> </ul>
Send	Current specifications	Current specifications	PINT A-NZ
SMP Registration <sup>1</sup>	Current specifications	Current specifications PINT A-NZ <sup>2</sup>	PINT A-NZ Current specifications <sup>3</sup>

# Feedback

**Any questions that hasn't been answered in today's webinar or feedback you may have on today's session can be provided to your relevant Peppol Authority below using the [feedback template](#).**

**The New Zealand Peppol Authority - [support@nzpeppol.govt.nz](mailto:support@nzpeppol.govt.nz)**

**The Australian Peppol Authority - [elInvoicing@ato.gov.au](mailto:elInvoicing@ato.gov.au)**

# Useful Links

## Specifications

- [Base PINT v1.0 Specifications \(Published\)](#)
- [PINT A-NZ Specifications v0.9 \(Draft\)](#)
- [ANZ Peppol BIS 3.0 extensions \(Current specifications\)](#)

## Member Review & Webinars

- [OpenPeppol PINT & Wildcard May webinar](#)
- [Member Review of PINT A-NZ Specs](#)
- [PINT A-NZ Engagement paper](#)
- [Rule cross reference spreadsheet](#)

## eDelivery documents

- [OpenPeppol eDelivery Specifications](#)
- [Peppol Policy for Use of Identifiers](#)
- [SMP Specifications](#)



# Glossary

Term	Description
BIS	Business Interoperability Specification (content describing process, usage, central elements, calculation, identifiers etc.)
Busdox Scheme	The original and default Document Type Identifier Scheme which uses 'exact match' for advertising receive capabilities.
Compliant specification	Supports all necessary data elements and does not break any rules of 'parent' specification, but may not contain all the 'parent' data elements
Data model (semantic and syntax)	Consists of semantic definitions (business terms and groups, business meaning) and syntax definitions (how those semantic terms are implemented using UBL XML syntax)
DSP	Digital Service Provider (C1/C4 FMIS, ERP etc.); noting that some C2/C3 SPs offer value-add services on behalf of C1/C4
PASR	Peppol Authority Specific Requirements
SP	Service Provider (C2/C3 Access Point, SMP)

# Glossary

Term	Description
Specialisation	PINT specifications that derive from a 'parent' specification. Specialisations restrict or narrow the 'parent' specification to suit a more specific set of requirements. It will support all shared data elements and comply with all rules of the 'parent' specification but may restrict the use of aligned elements and may introduce new distinct elements.
UBL	Universal Business Language is a standard defining an XML schema for a range of business documents for procurement and transportation. <a href="#">UBL v2.1</a> is the standard that underpins the PINT Billing and PINT A-NZ specifications.
Validation artefacts: schematron and XSLT	Languages to codify and implement business rules that can be built into software or can be used in a stand-alone application/platform to test specific XML messages e.g. while developing/testing software
Wildcard scheme	The new Document Type Identifier Scheme which uses 'best match' for advertising receive capabilities