PLEASE NOTE

The A-NZ Service Provider community is currently considering a proposal to disallow PINT exact match receiving capabilities using the 'busdox-docid-qns' document type identifier scheme.

The decision is expected to be finalised on Monday 10th February.

SPs are requested to provide feedback to the AU and/or NZ Peppol Authorities by Friday 7th February.

The information in this document shows describes the receiving capabilities and capability lookup requirements prior to that decision.

Please refer to PINT A-NZ Proposal to remove busdox.pdf in the Draft-artefacts-for-review GitHub repository

Australian Government
Australian Taxation Office

MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT
HĪKINA WHAKATUTUKI

Peppol International (PINT) Billing A-NZ Migration

Changes to the Wildcard Scheme since A-NZ SP Engagement webinars in October 2023

20 January 2025

Purpose

The PINT A-NZ migration webinar materials were prepared to support engagement with A-NZ Service Providers in October 2023.

The Peppol Policy for use of Identifiers (PFUOI) v4.3.0, including a change to the Wildcard Scheme, was published 3-Oct-24, effective 15-May-25.

Section **03 Wildcard Scheme** in the PINT A-NZ SP Engagement Webinar 1 presentation does not reflect the later changes to the PFUOI v4.3.0 changes.

This slide pack includes:

- Information related to wildcard scheme presented in the 10-Dec-24 A-NZ SP Forum

- Updates to **Section 03 Wildcard Scheme** from the original webinar

- Updated links and glossary

Wildcard Scheme information presented at A-NZ SP Forum 10-Dec-24

Policy for use of identifiers v4.3.0 – reminder!

- The updated *Policy for use of identifiers v4.3.0* becomes effective on 15-May-25.

- The Document Type Identifier Scheme ID (Doc Type ID scheme) used for PINT <u>exact match</u> receiving capabilities is changing from "`busdox-docid-qns`" to "`peppol-doctype-wildcard`".

- <u>Senders</u> must update their lookup algorithm **by 15-May-25**.

- <u>Receivers</u> then have approximately 3 ½ months to update the document type identifier scheme for PINT <u>exact match</u> receiving capabilities.

Policy for use of identifiers v4.3.0 – impacts to receiving capabilities

- There is **no change** to <u>best match</u> receiving capabilities (i.e. those that include '*').

- At their discretion, receivers intending to publish an <u>exact match</u> receiving capability for PINT-ANZ can choose to:

Either:
- Publish the exact match (pint:billing-1@aunz-1 without '*') receiving capability with the busdox Document Type ID scheme, **and**
- Update the Document Type ID scheme from busdox to wildcard after 15-May-25.

Or:
- Publish a best match receiving capability (pint:billing-1@aunz-1*) with the wildcard Document Type ID scheme
- Noting this is functionally the same as an exact match receiving capability as no further specialization of PINT A-NZ is currently planned.

Policy for use of identifiers v4.3.0 – actions and deadlines

1. Capability lookup algorithm in sending solutions (**by** **15-May-25**)

   - When sending PINT A-NZ, senders must check for exact match using both "`peppol-doctype-wildcard`" *and* "`busdox-docid-qns`" Document Type Identifier Scheme IDs.

   - If neither are found, then find the best match (pint:billing-1@aunz-1* or pint:billing-1*), with the "`peppol-doctype-wildcard`" Document Type Identifier Scheme ID.
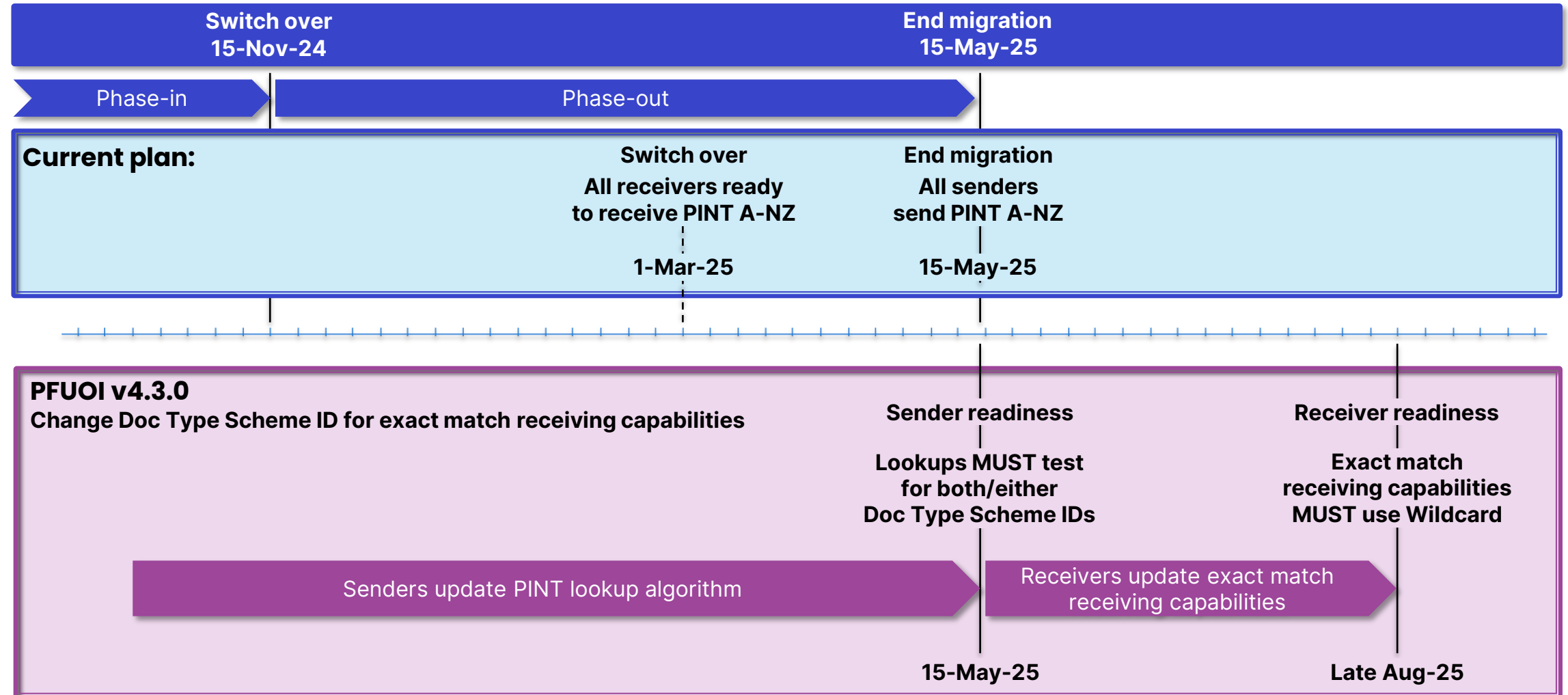
2. Publication of PINT exact match receiving capabilities (**after** **15-May-25**)

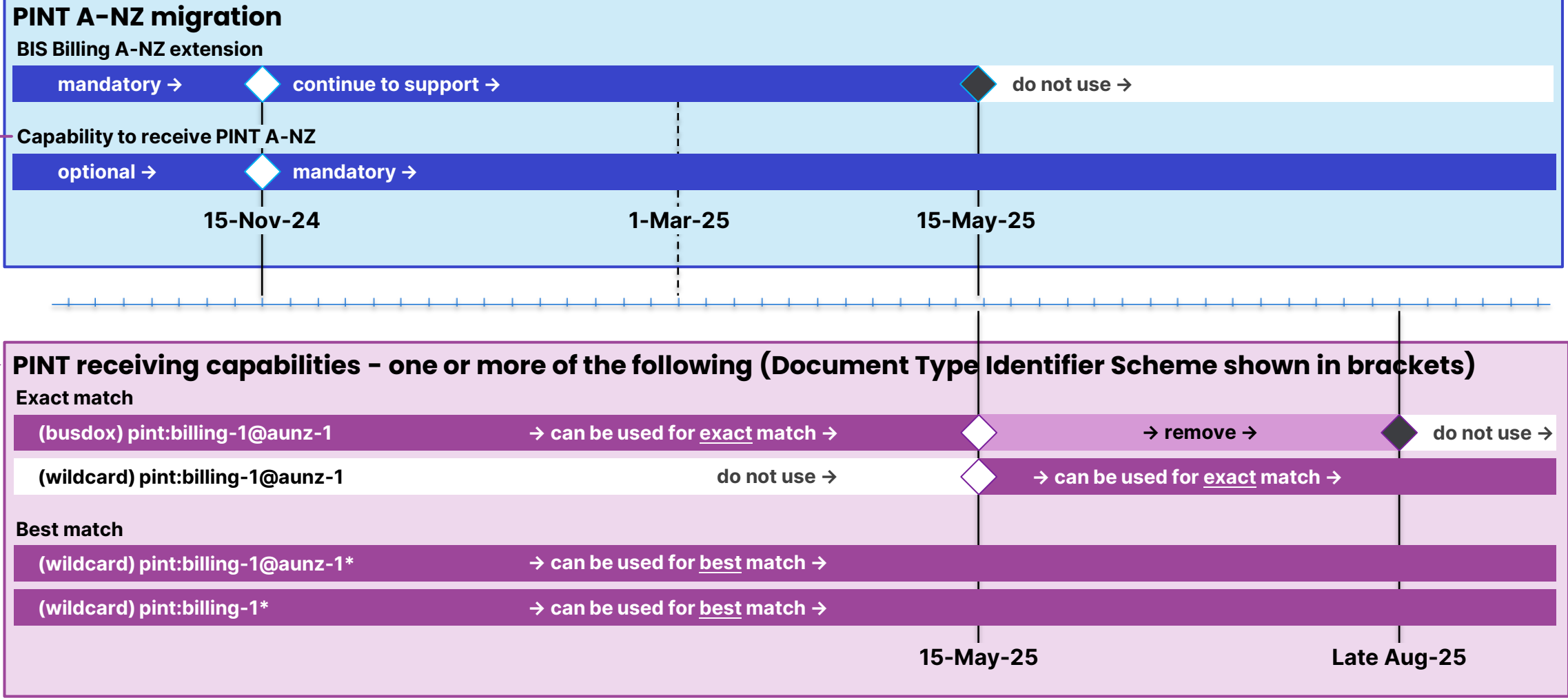   The Document Type Identifier Scheme ID needs to be updated from "`busdox-docid-qns`" to "`peppol-doctype-wildcard`".

PINT A-NZ and PFUOI v4.3.0 migration timelines

Published plan:

Switch over 15-Nov-24	End migration 15-May-25

Phase-in	Phase-out

Current plan:

Switch over
All receivers ready
to receive PINT A-NZ

1-Mar-25

End migration
All senders
send PINT A-NZ

15-May-25

PFUOI v4.3.0
Change Doc Type Scheme ID for exact match receiving capabilities

Sender readiness

Lookups MUST test
for both/either
Doc Type Scheme IDs

Receiver readiness

Exact match
receiving capabilities
MUST use Wildcard

Senders update PINT lookup algorithm

Receivers update exact match receiving capabilities

15-May-25

Late Aug-25

Receiving capabilities – allowed and required in A-NZ

PINT A–NZ migration

BIS Billing A-NZ extension

| mandatory → | ◇ continue to support → | ◆ do not use → |

Capability to receive PINT A-NZ

| optional → | ◇ mandatory → |

| 15-Nov-24 | 1-Mar-25 | 15-May-25 |

PINT receiving capabilities – one or more of the following (Document Type Identifier Scheme shown in brackets)

Exact match

| (busdox) pint:billing-1@aunz-1 | → can be used for <u>exact</u> match → | ◇ → remove → | ◆ do not use → |

| (wildcard) pint:billing-1@aunz-1 | do not use → | ◇ → can be used for <u>exact</u> match → |

Best match

| (wildcard) pint:billing-1@aunz-1* | → can be used for <u>best</u> match → |

| (wildcard) pint:billing-1* | → can be used for <u>best</u> match → |

| 15-May-25 | Late Aug-25 |

Summary – Receivers

- Receiving capabilities need to be published asap to allow all end users to receive PINT A-NZ.

  - Peppol Directory entries need to be refreshed/updated when receiving capabilities are added or removed.

- Maintain receiving capabilities for BIS Billing A-NZ extension until 15-May-25 (when all senders must be sending PINT A-NZ).

- The Document Type Identifier Scheme ID for <u>exact match</u> receiving capabilities needs to be updated from "`busdox-docid-qns`" to "`peppol-doctype-wildcard`" **after** 15-May-25.

  - There is no change to the Document Type Identifier Scheme ID (`peppol-doctype-wildcard`) for <u>best match</u>.

  - A <u>best match</u> receiving capability of pint:billing-1@aunz-1* is functionally the same as <u>exact match</u>.

Summary – Senders

- Those whose solutions can dynamically choose whether to send PINT A-NZ or the 'old' specification, are requested to deploy if you have not already done so.

- Senders who will switch from sending the 'old' specification to the PINT A-NZ specification are asked to deploy between 1-Mar-25 and 15-May-25.

- Capability lookup algorithms need to be updated **by** 15-May-25 to look for <u>exact match</u> receiving capabilities using the "`peppol-doctype-wildcard`" *and* "`busdox-docid-qns`" Document Type Identification Scheme IDs.
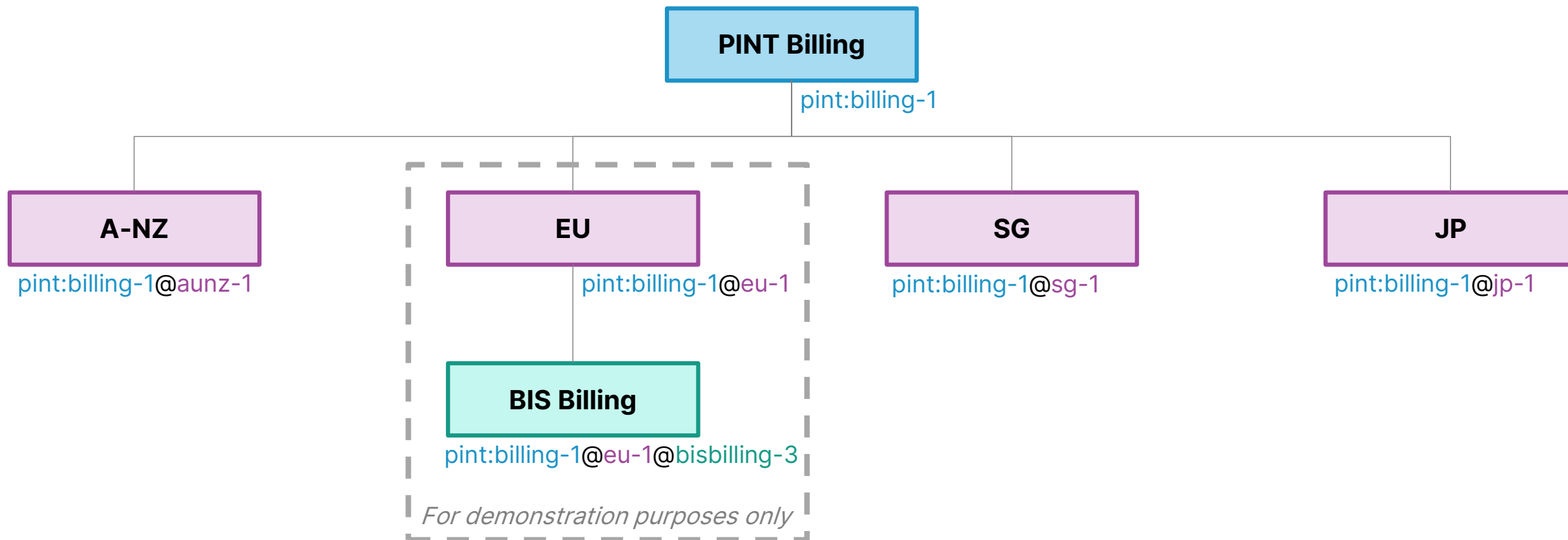
03

Wildcard Scheme

Slides 14-24 from October 2023 PINT A-NZ migration webinar, updated to reflect the PFUOI v4.3.0 changes

PINT Specification Identifiers

PINT Style Specification Identifier (CustomizationID) Pattern:
{base specification identifier}@{optional specialisation}@{optional further specialisation}@...

PINT Billing
pint:billing-1

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

EU
pint:billing-1@eu-1

SG
pint:billing-1@sg-1

JP
pint:billing-1@jp-1

BIS Billing
pint:billing-1@eu-1@bisbilling-3

For demonstration purposes only

How does the Wildcard Scheme compare?

	Busdox Scheme **Deprecated 15-May-25** **Disallowed from late Aug-25**	Wildcard Scheme	
		Prior to 15-May-25	**From 15-May-25**
SMP registration	Full Document Type Identifier	Document Type Identifier including '*'	Full Document Type Identifier OR Document Type Identifier including '*'
Sender document type identifier match	Exact match	Best match	Exact match OR 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

PFUOI v4.3.0 change
Document type identifier scheme for PINT exact match receiving capabilities may be:
- busdox, until removed from eDelivery (late August 2025)
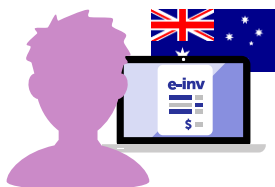- wildcard, from 15-May-25
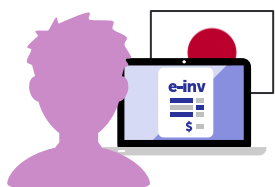
AU Sender

PINT A-NZ

pint:billing-1@aunz-1

AU Receiver

Receive Capability (SMP)

✓ pint:billing-1@aunz-1 (busdox/wildcard)
✓ pint:billing-1@aunz-1* (wildcard)
✓ pint:billing-1* (wildcard)
✗ poacc:billing:international:aunz (busdox)

AU Sender

A-NZ BIS Billing extension (current)

poacc:billing:international:aunz

AU Receiver

Receive Capability (SMP)

✗ pint:billing-1@aunz-1 (busdox/wildcard)
✗ pint:billing-1@aunz-1* (wildcard)
✗ pint:billing-1* (wildcard)
✓ poacc:billing:international:aunz (busdox)

No change to document type identifier scheme for non-PINT documents (e.g. BIS Billing A-NZ extension, other Post-Award documents etc. continue to use busdox)

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 Billing Compatibility – Cross-border

PFUOI v4.3.0 change
Document type identifier scheme for PINT exact match receiving capabilities may be:
- busdox, until removed from eDelivery (late August 2025)
- wildcard, from 15-May-25

AU Sender

PINT A-NZ

pint:billing-1@aunz-1

Receive Capability (SMP)

✕	pint:billing-1@jp-1 (busdox/wildcard)
✕	pint:billing-1@jp-1* (wildcard)
✓	pint:billing-1* (wildcard)

JP Receiver

JP Sender

PINT JP

pint:billing-1@jp-1

Receive Capability (SMP)

✕	pint:billing-1@aunz-1 (busdox/wildcard)
✕	pint:billing-1@aunz-1* (wildcard)
✓	pint:billing-1* (wildcard)
✕	poacc:billing:international:aunz (busdox)

AU Receiver

No change to document type identifier scheme for non-PINT documents (e.g. BIS Billing A-NZ extension, other Post-Award documents etc.)

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 until busdox is removed as an allowed PINT receiving capability document type identifier scheme:

pint:billing-1@aunz-1 (busdox deprecated from 15-May-25, disallowed from late August 2025; wildcard from 15-May-25)	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)

PFUOI v4.3.0 change
Lookup needs to handle both exact match receiving capabilities with:
- busdox, until removed from eDelivery (late August 2025)
- wildcard, from 15-May-25

AU Sender

Prepare and send document

PINT A-NZ

pint:billing-1@aunz-1

Sending to AU Receiver 1

Receive Capabilities (SMP)

peppol.eu:poacc:trns:mlr (busdox)
pint:billing-1* (wildcard)
pint:billing-1@aunz-1 (busdox/wildcard)
peppol.eu:poacc:trns:invoice_response (busdox)

Sending to AU Receiver 2

Receive Capabilities (SMP)

peppol.eu:poacc:trns:mlr (busdox)
pint:billing-1* (wildcard)
peppol.eu:poacc:trns:invoice_response (busdox)

---

1. Sending Access Point (C2) retrieves the receiver's SMP Service Group records

peppol.eu:poacc:trns:mlr (busdox)
pint:billing-1* (wildcard)
pint:billing-1@aunz-1 (busdox/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)

---

2. Sender checks for a busdox ('exact match') receiving capability.

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

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

---

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-1@aunz-1*
     ▪ pint:billing-1*

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

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

✓ Match on pint:billing-1* (wildcard)

---

4. When a match is found, the invoice should be sent to the Access Point defined in the matched SMP record.

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

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

Peppol Identifiers – example of 'best match' receiving capabilities published and used

PINT-1*****

PINT-1@AUNZ-1*****

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}"/>
…
```

SMP Service Metadata Lookup

```
…
<smp:SignedServiceMetadata …>
  <smp:ServiceMetadata …>
    <smp:ServiceInformation>
      <ids:ParticipantIdentifier scheme="{PS}">{P}</…>
      <ids:DocumentIdentifier scheme="{DS}">
        {NS}::{D}##{P2}*::{V}</…>
…
```

SMP

2 *match* **3** *info* **4** *send* **5** *receive* **6** *process*

SBDH

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

PINT

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

SBDH
PINT

1 *define*

AP C2

AS4

AS4

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

AP C3

SBDH
PINT

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 ('best match', conducted if no 'exact match')

SMP ServiceGroup Lookup

SMP

```
…
<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}"/>
…
```

scheme | namespace | Document element | CustomizationId | Version

peppol-doctype-wildcard::urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:peppol:pint:billing-1*::2.1

match

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

AP C2

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

2. `busdox-docid-qns::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@aunz-1*::2.1`

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

2. busdox-docid-qns::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@aunz-1*::2.1

4. peppol-doctype-wildcard::urn:oasis:names:specification:ubl:schema:xsd:CreditNote-2::CreditNote##urn:peppol:pint:billing-1*::2.1

Links and Glossary

Useful Links

Specifications

- General PINT Specifications   [v1.0.2](#) (effective to 8-Mar-25)   [v1.1.0](#) (effective from 9-Mar-25)
- PINT A-NZ Specifications   [v1.0.1](#) (effective to 8-Mar-25)   [v1.1.0](#) (effective from 9-Mar-25)
- [A-NZ Peppol BIS 3.0 extensions](#) 'old' specifications (v1.0.11 effective to 8-Mar-25, v1.0.12 effective 9-Mar-25 to 15-May-25)
- [A-NZ BIS 3.0 extension vs. PINT A-NZ rule cross reference spreadsheet](#)

Member Reviews & Webinars

- [Member review of Peppol Policy for use of Identifiers v4.3.0](#) incl. migration plan with explanations of changes
- OpenPeppol PFUOI v4.3.0 webinars - [proposed RfC 10-Jul-24](#), [SP Community 10-Sep-2024](#), [eDelivery - 03-Oct-2024](#)
- [PINT A-NZ SP engagement paper and webinars](#)
- [Member Review of draft PINT A-NZ specifications](#)
- [OpenPeppol PINT & Wildcard May 2023 webinar](#)

eDelivery specifications [(link to all specifications)](#)

- [Peppol Policy for Use of Identifiers v4.2.0](#)   published 19-Jun-23   effective 1-Jan-24 to 14-May-25
- [Peppol Policy for Use of Identifiers v4.3.0](#)   published 3-Oct-24   effective from 15-May-25
- [SMP Specification v1.3.0](#)   published 5-Jun-23   effective from 1-Jun-24
- [Peppol Directory specification v1.1.1](#)   published 15-Oct-20   effective 10-Dec-21
- [eDelivery Code Lists](#) (*Document Types* code list has valid Peppol Document Types and relevant Identifier Schemes)

Glossary

Term	Description
ACL	Addressing and Capability Lookup Services
BIS	Business Interoperability Specification (content describing process, usage, central elements, calculation, identifiers etc.)
Best match	Receiving capability that specifies a customization ID **with** a wildcard indicator '*' – can be selected by the lookup process according to the rules defined in the PFUOI section 5.1.2, if there is no exact match receiving capability for the document being sent.
Busdox	The original and default Document Type Identifier Scheme "`busdox-docid-qns`" which can be used to publish 'exact match' receiving capabilities for PINT A-NZ until support is removed late August 2025 (deprecated from 15-May-25).
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
Exact match	Receiving capability that specifies a customization ID **without** a wildcard indicator '*' – can be selected by the lookup process if a document with that exact customization ID is being sent.
Lookup	Process by which the sender retrieves the receiving capabilities of the receivers, and determines which, if any, receiving capability to use to determine the receiver's C3 Access Point
PASR	Peppol Authority Specific Requirements

Glossary

Term	Description
PFUOI	Peppol Policy for use of identifiers (available at https://docs.peppol.eu/edelivery/)
SP	Peppol Service Provider (C2/C3 Access Point, SMP)
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. UBL v2.1 is the standard that underpins the PINT Billing and PINT A-NZ specifications.
Validation artefacts	Schematron and XSLT languages used 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	Depending on the context, can refer to either • The Document Type Identifier Scheme "`peppol-doctype-wildcard`" • "*" character (star or asterisk character, ASCII Decimal 42) used within a published receiving capability to support 'best match' if an 'exact match' lookup fails The Wildcard Document Type Identifier Scheme: • is always used to publish 'best match' receiving capabilities, and • can be used to publish 'exact match' receiving capabilities from 15-May-25, until late August 2025, when it becomes the only valid identifier scheme for all PINT receiving capabilities.