

# Oxalis Community

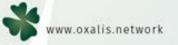
Technical Meeting - March, 2024



## Oxalis – Latest Status Update



- Oxalis 6.5.0 and Oxalis-AS4 6.5.0 released on 4th March 2024:
  - Bump vefa-peppol to 3.5.0
  - Added certificate validation
  - Added new dummy certificates
  - Fixed test cases which were failing due to change in SMP registration (Transport Profiles, Document Types, Participant Identifier Scheme etc) & expired SMP certificate
- Artifacts are available in Oxalis Network maven repositories and Norstella Docker hub repositories
- Vulnerability Scanning report of Latest Oxalis Release:
  - There are one "High" and four "Medium" vulnerability reported by GitHub "Dependabot" scanning and Sonatype Scanning.
  - Vulnerabilities are in "Xmlsec", "bcprov-\*, "H2" and "logback-core".
  - These vulnerability will be fixed in next oxalis release («Oxalis NG»).
- Contribution and Communication:
  - · Good to see lots of topics/issues being discussed in Slack, GitHub issues and GitHub discussion etc
  - We encourage all Oxalis Paying Members to make effective use of <u>Slack</u> to receive faster, up-to-date, consolidated, and real time information. By joining slack channel, you will get valuable insight and support for your day-to-day queries.
  - Avoid sending direct email and message via Oxalis network site as it add extra layer and sometimes it become difficult to follow multiple request channel.
  - Always post in #general channel (avoid direct 1-to-1 messages) so that most of users will get benefits of response. Let us make interaction happen there in <u>Slack</u>. If required, we will create additional channels.



## Malaysia Mandate



Malaysia is using pre-clearance model that means invoice must be validated with IRBM/LHDNM before sending it to Buyer. Peppol network is "supported and preferred but not compulsory network", so routing & delivery can be done via another channel as well.

For pre-clearance, service provider (C2) need to integrate with API, which was provided by MDEC on 9<sup>th</sup> February (*beta version*) for validating invoice with Malaysia Tax authority. Once service provider (C2) have validated invoice it can then be sent to C3 service provider over Peppol network. Malaysia has released MY PINT BIS 1.0 specification and was published by OpenPeppol on 1<sup>st</sup> March 2023. Oxalis already supporting PINT & DDTS (Peppol Wildcard Scheme) since version <u>5.3.0</u>.

#### Important details:

- Malaysia Timeline: 1 August 2024
- Model: Pre-Clearance, Centralized Clearance
- API: https://sdk.myinvois.hasil.gov.my/api/ (API Sandbox availability: Sometime in April 2024)
- Guidelines: <a href="https://www.hasil.gov.my/en/e-invoice/guidelines/">https://www.hasil.gov.my/en/e-invoice/guidelines/</a>
- Direct Portal: MyInvois Portal
- Format: PINT BIS Billing MY, PINT BIS Self Billing MY (<a href="https://docs.peppol.eu/poac/my/">https://docs.peppol.eu/poac/my/</a>)
- Network: Peppol ("supported and preferred but not compulsory network")

#### Acronym/Abbreviation:

IRBM = Inland Revenue Board Of Malaysia aka LHDN

LHDN = Lembaga Hasil Dalam Negeri aka HASiL (The Malaysian tax authority for Tax Reporting & Compliance)

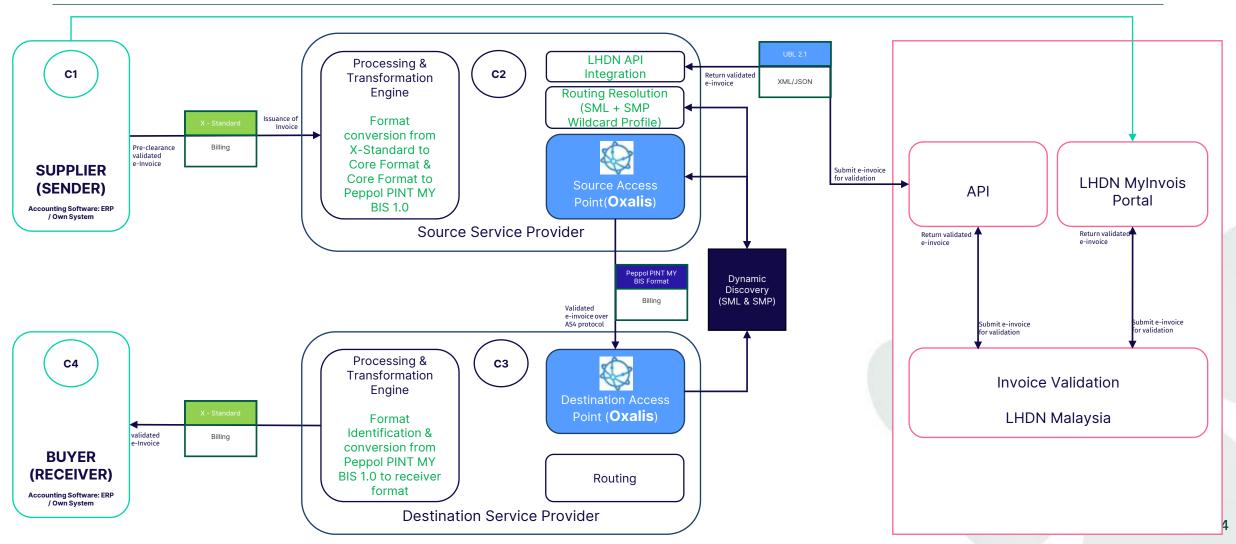
MDEC = Malaysia Digital Economy Corporation (Peppol Authority, Malaysia - Take care of Peppol PINT and eDelivery Network)



# Malaysia Mandate LHDN Pre-Clearance API and Peppol PINT BIS & eDelivery Network\*



\*Peppol network "supported and preferred but not compulsory network"



## PINT DDTS Support



Starting version 5.3.0, Oxalis started supporting "Dynamic Document Type Scheme" by means of "Peppol Wildcard Scheme" aka "peppol-doctype-wildcard". Oxalis support two different document type identifier schemes. These are:

- 1. "busdox-docid-qns" current & default
- 2. "peppol-doctype-wildcard" introduced to support the Peppol International Invoicing project (PINT)

#### DDTS - Wildcard

- Enables receivers to register for a certain document type and all narrower specifications
- Narrower means that some or all features of the Parent Document Type are used, and all rules of the Parent Document Type are respected
- The Wildcard is represented as a \* (star or asterisk)
- The Wildcard MUST be the last character of the Customization ID

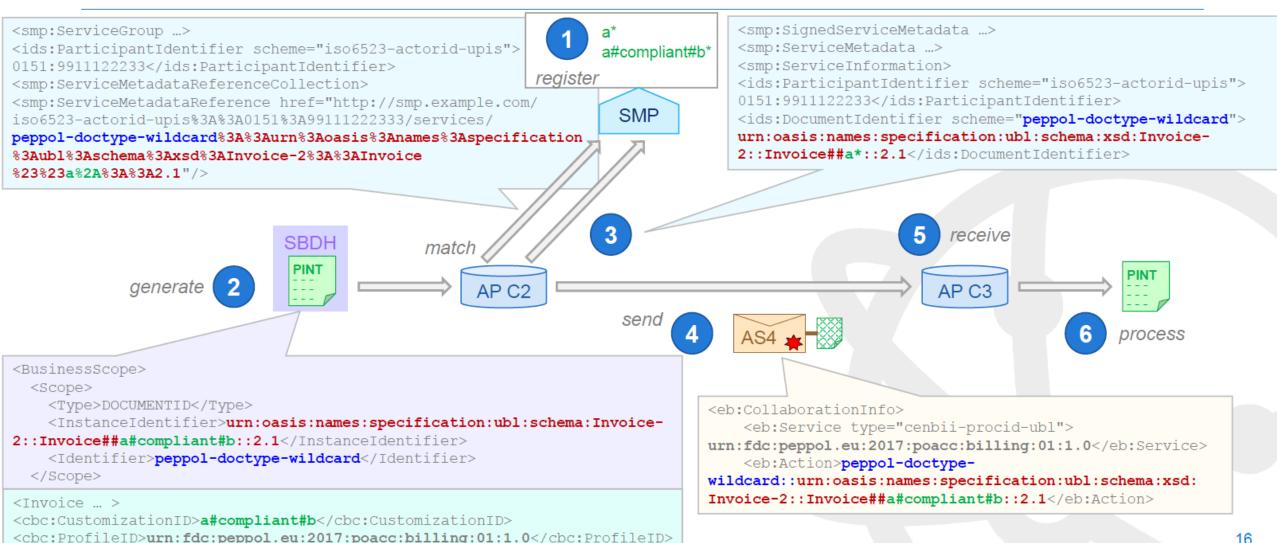
#### DDTS - Wildcard Usages

- Where to apply the Wildcard?
  - In the SMP as a receiving capability
- Where Not to apply the Wildcard?
  - In the AS4 message
  - In the Peppol envelope (SBDH)
  - In the BIS payload document





# eDEC DDTS - Usage examples



# Malaysia PINT DEMO with Oxalis



http://smp.playground.acc.peppol.eu/iso6523-actorid-upis%3A%3A0230%3Atest-participant/services/peppol-doctype-wildcard%3A%3Aurn%3Aoasis%3Anames%3Aspecification%3Aubl%3Aschema%3Axsd%3Alnvoice-2%3A%3Alnvoice%23%23urn%3Apeppol%3Apint%3Abilling-1%40my-1\*%3A%3A2.1



## MLS Update



MLS (Message Level Status) is an extension of MLR (Message Level Response), where it provides delivery statuses (failure/RE, accept/AB, acknowledge/AP) in addition to whatever included as part of MLR. MLS is exchanged between C2 and C3.

- Failure (Status code: RE): Message Rejected or Delivery failed
  - Validation errors (same as MLR) XML Schema and Schematron validation)
  - General content errors (e.g., Virus or malware detected, XML file size exceeds specifications, XML elements too long, MIME Type mismatch, Malformed content etc)
  - Failure of C3 to pass on the business document to C4
- · Acknowledge (Status code: AP): Message Delivery succeeded i.e., Message Delivered with confirmation
- Accept (Status code: AB): Message Delivered without confirmation

#### **Changes required:**

SBDH Specification: New SBDH specification will be published which will introduce two new business scope elements (MLS\_TO & MLS\_TYPE) just like "COUNTRY\_C1" introduced by Peppol Reporting

- MLS Recipient: MLS Recipient can be identified by "MLS\_TO" element in "SBDH". Here C2 will be identified by Peppol Seat ID e.g., XXXX:000100. Other way to identify MLS Recipient is via AS4 User Message. Example:
  - From AS4 User message:

```
<eb:From>
```

<eb:Partyld type="urn:fdc:peppol.eu:2017:identifiers:ap">POP000100</eb:Partyld>

<eb:Role>http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/ns/core/200704/initiator</eb:Role>

</eb:From>

From SBDH:

<sh:Scope>

<sh:Type>MLS\_TO</sh:Type>

<sh:InstanceIdentifier>XXXX:POP000100</sh:InstanceIdentifier>

</sh:Scope>

- MLS Response Type (MLS\_TYPE):
  - For failure only (default, if no type is included in SBDH):

```
<sh:Scope>
```

<sh:Type>MLS TYPE</sh:Type>

<sh:InstanceIdentifier>FAILURE\_ONLY</sh:InstanceIdentifier>

</sh:Scope>



## MLS Continue



• Always send an MLS message (Send MLS messages with status RE, AB and AP):

```
<sh:Scope>
    <sh:Type>MLS_TYPE</sh:Type>
    <sh:InstanceIdentifier>ALWAYS SEND</sh:InstanceIdentifier>
</sh:Scope>
```

#### **Current state of specification:**

- Feedback/Review period (currently)Next action will be to "Submit new BIS to eDEC"
- eDEC & OO will then take over and conduct any required consultation and determine next steps

Support for receiving MLS will be mandatory across OpenPeppol (in future TBD), PAs may optionally mandate either MLS 'type' scenario. There is very likely that MLS may become mandatory January 2025.

#### **Oxalis Support**

- SBDH changes will be done by Oxalis.
- Validation/MLR generation is currently out of scope of Oxalis. But if you want to include validation to be part of Oxalis community offering than please raise a feature request.



## 2024, H1 – Technical Roadmap



Following would be the Technical roadmap for H1, 2024 and beyond:

- 1. Evolve and adjust OXALIS libraries: We are planning to release new version called «Oxalis NG» via new repositoty by merging Oxalis-AS4 with Oxalis-Core and discontinuing AS2 support.
- 2. Upcoming OpenPeppol specifications: OpenPeppol May 2024 release, etc.
- 3. Address missing profile, certificate, and envelope validation to uphold high standards and specifications
- 4. Start building basic support for MLS
- 5. Faciliate **country-specific implementations** through Oxalis Plugin Architecture, such as Danish Nemhandle / ERST Integration.

### **General Guidance and Principles**

- Ensure OpenPeppol specification compliance with a dedicated focus on core capability
- Address urgent and critical bug fixes and vulnerabilities

H2, 2024 roadmap will be published shortly (Most probably in Oxalis Community Business Meeting on 20th March)

# Oxalis GitHub Dashboard / ROADMAP



Public Dashboard: <a href="https://github.com/orgs/OxalisCommunity/projects/12/views/1">https://github.com/orgs/OxalisCommunity/projects/12/views/1</a>

Dashboard for Members: <a href="https://github.com/orgs/OxalisCommunity/projects/11/views/1">https://github.com/orgs/OxalisCommunity/projects/11/views/1</a>

Oxalis Developers Dashboard: <a href="https://github.com/orgs/OxalisCommunity/projects/13/views/1">https://github.com/orgs/OxalisCommunity/projects/13/views/1</a>



## Next Steps



Join Us: <a href="https://www.oxalis.network/join">https://www.oxalis.network/join</a>

All activity in the Oxalis Community is funded by its members, by fees determined by the Oxalis Community. An overarching principle is to keep administration to a minimum, to ensure that funds are spent on improvements, bug fixing and development of the software – to benefit all implementers.

Register Now, if you are not "Oxalis Member" Yet

- Questions? Contact us:
  - Slack Channel: https://norstellaoxalis.slack.com
  - Email: oxalis@norstella.no
  - Contact us Form: https://www.oxalis.network/contact-us
  - Website: <a href="https://www.oxalis.network/">https://www.oxalis.network/</a>
  - Github Issues: <a href="https://github.com/OxalisCommunity/oxalis/issues">https://github.com/OxalisCommunity/oxalis/issues</a>
  - GitHub Discussion: <a href="https://github.com/OxalisCommunity/oxalis/discussions">https://github.com/OxalisCommunity/oxalis/discussions</a>





More information: www.oxals.network

