



Oxalis Community

Technical Meeting - September, 2024

Oxalis - Latest Status Update



- **[Oxalis 6.7.0](#) and [Oxalis-AS4 6.7.0](#) released on 10th August 2024:**
 - Added eDEC Codelist version 8.9 support
 - Bump vefa-peppol version to 3.7.0
 - Bump dnsjava version to 3.6.0
 - Bump commons-certvalidator to version 4.2.0
 - Fixed testcases which were failing due to expired Test AP certificate
 - Optimized BusdoxLocator and BdxlLocator lookup by introducing multiple & faster lookup resolver and fixed false-negative (network-level errors reported as participant not found)
 - Use of token to publish artifacts in OSSRH Sonatype Nexus Repository
- Artifacts are available in [Oxalis Network maven repositories](#)
- Fixed Docker Hub ([Norstella Docker hub](#)) build version issue for current release. Earlier tag will be fixed as part of [Issue#241](#)
- Vulnerability Scanning report (by “*GitHub Dependabot*” and “*Sonatype*” scanning):
 - Sonatype started publishing scanning report after we started using token-based authentication
 - There is one “High” (cxf-core) and one “Medium” (xmlsec) vulnerability reported by “Sonatype” scanning in Oxalis-AS4
 - H2 database and Logback reported by Sonatype in 6.7.0 release, is now fixed in Oxalis master
 - High vulnerability (cxf-core) is already fixed in Oxalis-AS4 master
 - There is No “GitHub Dependabot” vulnerability issue at present
- Contribution and Communication:
 - Thanks a lot - Christoffer A. Nilsen (canilsenlogiq), Dejan Maric (chromy96) and Eivind Bergstøl (eivinhb) for your pull request & contribution. 🙌
 - Good to see topics/issues are being discussed in [Slack](#), GitHub issues and GitHub discussion etc
 - We encourage all Oxalis Paying Members to make effective use of [Slack](#) 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.

OpenPeppol Testbed eDELIVERY TEST SUITE

Oxalis 6.6.0



As a regular practice we tested last version of Oxalis against OpenPeppol Testbed. Below is the result with version 6.6.0

The screenshot shows the OpenPeppol Testbed interface for the eDELIVERY TEST SUITE. The browser address bar shows the URL: <https://www.testbed.peppol.org/post-award/edelivery/14>. The page title is "eDELIVERY TEST SUITE" and the sub-section is "STANDALONE ACCESS POINT TEST SUITE".

The main content area displays the following information:

- Available test cases** (TEST SUITE COMPLETED):
- Select test case to see more details
- TC2A.1: TLS grading verification (Passed)
- TC2A.2B: AS4 message reception (Passed)
- TC2A.3: AS4 message submission (Passed)
- TC2A.4: Invalid certificate handling (Passed)
- TC2A.5B: Large AS4 message reception (Passed)
- TC2A.6: Large AS4 message submission (Passed)

Below the test cases, the "Enrolled configuration" is shown:

Participant	0192-9238296-44
Domain	POST AWARD
Endpoint URL	https:// .api. qa.com/peppol/as4
Implementation name & version	Oxalis 6.6.0

A "DOWNLOAD REPORT" button is visible at the bottom of the configuration section.

Status Of Roadmap – 2024



Following functionalities/Issues would be part of **H2, 2024** roadmap:

- OpenPeppol specifications including eDEC Codelist and November release
- Improvement & bug fixes
- «Oxalis NG» Release
- Jakarta EE 10/Jakarta XML Binding 4.0 and support for Tomcat 10
- Address any missing profile, and envelope validation to uphold high standards and specifications

General Guidelines:

1. **Evolve and adapt OXALIS and associated libraries.**
2. Analysis and Implement upcoming **OpenPeppol Specifications**
3. Address issue related to **Standards and Specifications**
4. Faciliate **Country-Specific implementations** through Oxalis Plugin Architecture

Peppol Policy for use of Identifiers (PPFUOI) v4.3.0 is out for [review](#) and it will be replacing current production version 4.2.0. It is planning to change the semantics of the “peppol-doctype-wildcard” Document Type Identifier Scheme by introducing “exact match” in addition to current “best match”.

Note that for “peppol-doctype-wildcard” document Type Identifier Scheme with “exact match”, you can **Not** use wildcard indicator(*) in SMP registration. It is identical to the behavior of present “busdox-docid-qns” Document Type Identifier Scheme. Example of valid “peppol-doctype-wildcard” customization IDs are:

- *a (exact match, without wildcard indicator)*
- *a* (best match, with wildcard indicator)*
- *a@b (exact match, without wildcard indicator)*
- *a@b* (best match, with wildcard indicator)*
- *a@b@c@d (exact match, without wildcard indicator)*
- *a@b@c@d* (best match, with wildcard indicator)*

Matching Document Type Identifiers without Wildcard Indicator

The matching of Document Type Identifiers without a valid Wildcard Indicator is exact matching only, so only Document Types Identifiers that have the Same Scheme and the Same Value are considered equal. Examples:

- SMP registration a
 - Matches a
 - Does not match e.g. a@b, a@b@c@d, b, b@a or b@a@c
- SMP registration a@b
 - Matches a@b
 - Does not match e.g. a, a@b@c, a@b@c@d, a@c, b@a, or c@a@b

Matching Document Type Identifiers precedence rules

If Participant SMP registration contains entries with and without a Wildcard Indicator, then “exact match” without a Wildcard Indicator MUST always take precedence over “best match” with Wildcard Indicator . Examples:

SMP has a registration for a* and a@b

- Senders wanting to send “a” must choose the SMP endpoint offered by a*
- Senders wanting to send “a@b” must choose the SMP endpoint offered by a@b
- Senders wanting to send “a@b@c” must choose the SMP endpoint offered by a*
- Senders wanting to send “a@c” must choose the SMP endpoint offered by a*
- Senders wanting to send “b@c” will not find a matching SMP endpoint

Note: Oxalis will introduce “exact match” without a Wildcard Indicator priority over “best match” with Wildcard Indicator for “peppol-doctype-wildcard” Document Type Identifier Scheme once [review](#) will be finalized and PPFUOI v4.3.0 will be released for production use.

Example of Document Type Identifier in SMP

- **“busdox-docid-qns”**: <DocumentIdentifier scheme="busdox-docid-qns">urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1</DocumentIdentifier>
- **“peppol-doctype-wildcard” WITHOUT a Wildcard Indicator**: <DocumentIdentifier scheme="peppol-doctype-wildcard">urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:peppol:pint:billing-1@jp-1::2.1</DocumentIdentifier>
- **“peppol-doctype-wildcard” WITH a Wildcard Indicator**: <DocumentIdentifier scheme="peppol-doctype-wildcard">urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:peppol:pint:billing-1*::2.1</DocumentIdentifier>

Important: The deadline for commenting on public review for PPFUOI v4.3.0 is 18 September 2024.

Peppol Business Message Envelope (SBDH) Change:

The Identifier Schemes for “Document Type Identifiers” and “Process Identifiers” are Optional in SBDH (*Peppol Business Message Envelope 2.0.1*) i.e., cardinality of identifier (*StandardBusinessDocumentHeader/BusinessScope/Scope/Identifier*) in the SBDH is “0 .. 1”, which means Optional. Though at present, if the identifier schemes are missing – the default value for “process scheme identifier” is “cenbii-procid-ubl” and the default value for “document type identifier scheme” is “busdox-docid-qns”.

But since the introduction of “peppol-doctype-wildcard” document type identifier scheme for PINT , it is necessary that document type identifier scheme MUST be explicitly specified as either “busdox-docid-qns” or “peppol-doctype-wildcard” in SBDH. This will improve overall consistency, avoid errors and will help in making routing decision.

PINT Updates & Other Peppol Update



Abstract Document types

“PINT base” profiles (*PINT-**, i.e., “Peppol PINT Invoice v1.0” & “Peppol PINT CreditNote v1.0”) are marked as “abstract” in [eDEC Codelist](#). These “abstract” Document Type Identifiers **only** be used in SMP registrations in combination with “peppol-doctype-wildcard” Document Type Identifier Scheme and a **Mandatory Wildcard Indicator (*)**.

Note: The word “abstract” indicates that such Document Type Identifiers are not instantiable and as such can never directly appear in “business documents”. It is to avoid “PINT base” used as “real invoice”.

PINT and Global Interoperability

Sender in particular PINT jurisdiction can send PINT document to receiver in another PINT jurisdiction if that receiver is registered with PINT-* e.g., Singapore sender can send a PINT-SG document to Malaysia receiver if Malaysian receiver is registered with PINT-*. Each PA can specify whether their receivers can register with their own PINT version like PINT-MY* or with PINT-*. The latter being global interoperability within PINT regime.

At present there is No “global interoperability” between PINT and Non-PINT jurisdiction i.e., current Peppol BIS 3.0 cannot be sent to any jurisdiction which is following PINT regime. There will be “global interoperability” once each jurisdiction has its own PINT version.

Old and relevant material covered in last Oxalis Technical Meeting

- **PINT Material:**
 - Malaysia Mandate and PINT: <https://www.oxalis.network/tech-dialog-meeting-060324>
 - Singapore PINT and eReporting: <https://www.oxalis.network/tech-dialog-meeting-120624>
- **MLS:** <https://www.oxalis.network/tech-dialog-meeting-060324>

Oxalis GitHub Dashboard / ROADMAP



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

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

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

Next Steps



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- Still questions? contact us:
 - Slack Channel: <https://norstelloxalis.slack.com>
 - Email: oxalis@norstella.no
 - Contact us Form: <https://www.oxalis.network/contact-us>
 - Website: <https://www.oxalis.network/>
 - Github Issues: <https://github.com/OxalisCommunity/oxalis/issues>
 - GitHub Discussion: <https://github.com/OxalisCommunity/oxalis/discussions>



More information:
www.oxalis.network