



Oxalis Community

Technical Meeting - December, 2024

Oxalis - Latest Status Update [1/2]



- **Oxalis [7.0.0-RC1](#) and Oxalis-AS4 [7.0.0-RC1](#) released :**
 - Major version i.e., incompatible with previous version
 - Jakarta version upgrade
 - Require upgrade to Tomcat 10.x
 - Run with all Java versions starting 11 to 23 without any workaround and/or warning messages
 - Migration from OpenTracing (Archived/unsupported) to OpenTelemetry
 - Added configurable properties in oxalis.conf for BusdoxLocator and BdxlLocator.
 - Further refinement of lookup result error handling with actionable messages
 - Bump peppol-specifications to version 2.3.0
 - Bump pkix-ocsp version to 2.3.0
 - Bump commons-certvalidator to version 4.4.0
 - Bump vefa-peppol to version 3.8.0
 - Bump guava version to 33.3.1-jre
 - Bump h2 database to version 2.3.232
 - Bump dnsjava version to 3.6.2
 - Bump logback version to 1.5.6
 - Bump Jetty version to 11.0.24
- Artifacts are available in [Oxalis Network maven repositories](#)
- Artifacts are available in Docker Hub: [Norstella Docker hub](#)
- Vulnerability Scanning report (by “*GitHub Dependabot*” and “*Sonatype*” scanning):
 - Sonatype reported one high and two medium vulnerabilities.
 - High level vulnerability is in angus-mail. No fix version available yet
 - Medium level vulnerabilities found in H2 database and Jetty. No fix version available yet

Oxalis - Latest Status Update [2/2]



- **Oxalis-NG [v0.1.0-alpha](#) released:**
 - Major version i.e., incompatible with previous version due to package name change & major restructuring
 - Built on top of Oxalis/Oxalis-AS4 7.x, so everything which is there in Oxalis/Oxalis-AS4 is also in "Oxalis-NG"
 - Removed support for AS2 protocol, which is No longer supported by Peppol since 2020
 - Merged "Oxalis-AS4" with Oxalis Core and these are now maintained in one single repository - "Oxalis-NG"
 - Sanity testing of application is done along with Docker setup
 - Current alpha version still contain legacy components like "Oxalis Statistics", "Oxalis Persistence" and "Oxalis Document Sniffer"
 - There is already a note which says "*Users may expect this extension and its functionality to be removed from Oxalis as of version 4.2 or 5.0*"
 - Here we are to check your views as Oxalis Users whether you still need above mentioned legacy components?
- For some time both Oxalis 7.x.x. & Oxalis-NG will be maintained together. But after some period (TBC), only "Oxalis-NG" will be maintained for Peppol
- Artifacts are available in [Oxalis Network maven repositories](#)
- Artifacts are available in Docker Hub: [Norstella Docker hub](#)
- Contribution and Communication:
 - Thanks a lot - Smahieu87 for Jakarta version upgrade pull requests & your 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.

Oxalis Roadmap 2025



Roadmap available in Github

- **Ensure Compliance with OpenPeppol Specifications:** Prepare for and integrate upcoming specification changes, including but not limited to the Peppol Policy For Use of Identifier 4.3.0/4.4.0 (*wildcard support for exact match/CNAME-NAPTR change*), MLS adjustments, eDEC CodeList modifications, and the November and May 2025 releases. Focus on achieving full adherence to OpenPeppol standards, prioritizing core capabilities for seamless integration
- **Enhance Oxalis Performance:** Conduct benchmarking tests to measure Oxalis performance and implement necessary optimizations to ensure optimal performance
- **Address Critical Bugs and Vulnerabilities:** Prioritize the resolution of urgent bugs and security vulnerabilities to ensure the stability and security of the system
- **Support Oxalis 7.x alongside Oxalis-NG:** While transitioning to Oxalis-NG, continue support for Oxalis 7.x for an extended period. Going forward, Oxalis-NG will be the primary and sole supported version
- **Enable Country-Specific Implementations:** Support tailored country-specific implementations via the Oxalis Plugin Architecture, such as integrating Denmark's ERST Nemhandel

Peppol Policy for use of Identifiers v4.3.0 - Published [1/2]

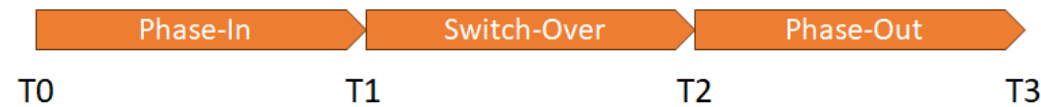


Policy for use of Identifiers (PPFUOI) v4.3.0 published on 9th October 2024 and it will be replacing current production version 4.2.0. It is planning to changes the semantics of the “peppol-doctype-wildcard” Document Type Identifier Scheme by introducing "exact match" in addition to current "best match".

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:peppol:pint:billing-1@my-1::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@my-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@my-1*:2.1 </DocumentIdentifier>

Migration Process - The process of migration towards new wildcard identifier scheme in PINT:



T0: Peppol Policy for the Use of Identifiers published: **9th October 2024**

T1: Switchover to the new SMP lookup algorithm (Sender Side) : **May 15th, 2025**

T2: Switchover to the mandatory use of the wildcard scheme (Receiver SMP Registration) in PINT: ~ **August 27th, 2025**

T3: Phase-out of PINT exact match registrations with the busdox scheme: **3 months after T2**

Sender Side - Lookup Priority:

- **Current:**
 - **Priority 1:** busdox scheme exact match
 - **Priority 2:** wildcard scheme best match
- **Starting T1:**
 - **Priority 1:** wildcard scheme exact match
 - **Priority 2:** busdox scheme exact match
 - **Priority 3:** wildcard scheme best match
- **Starting T2:**
 - **Priority 1:** wildcard scheme exact match
 - **Priority 2:** wildcard scheme best match

Note: busdox scheme exact match is removed per T2

Important: The Peppol Policy for use of identifiers v4.3.0 takes effect as of **15 May 2025**. Until 14 May 2025, the current version v4.2.0 remains mandatory for all Service Providers. *Oxalis will change lookup priority for T1 in Q1, 2025.*

Peppol Policy for use of Identifiers v4.4.0 (Not Published)



Upcoming changes related to DNS lookup i.e., from CNAME to NAPTR was first communicated in SPC meeting on 19th November 2024.

This require changes in 1. *Peppol SML Specification* 2. *Peppol SMP Specification* and 3. *Policy for use of Identifiers (PFUOI)*.

OpenPeppol is likely to publish next version of Policy for use of Identifiers (PFUOI) i.e., v4.4.0 to accommodate this changes.

This required changes in lookup algorithm. We will keep you updated with latest.

PINT Updates [1/3]



UAE introducing eInvoicing in 2026 with near real-time exchange of invoices and facilitate seamless tax reporting to the UAE Federal Tax Authority.

The following steps provide an overview of UAE's eInvoicing model - [Peppol DCTCE](#) + [Peppol UAE PINT format](#)

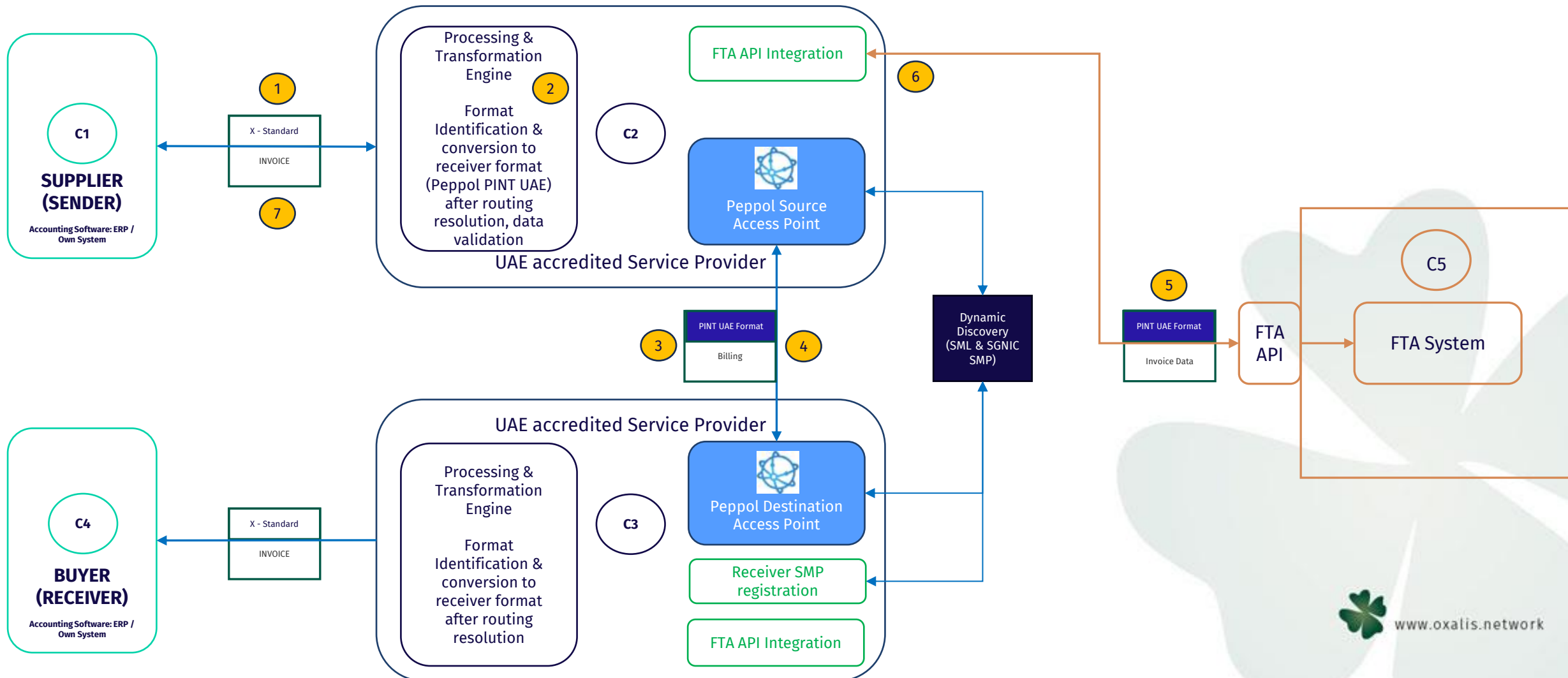
1. Supplier (Corner 1) transmits eInvoice data in an agreed format with its UAE accredited Service Provider (Corner 2).
2. C2 validates the eInvoice data received from C1 and converts it into the UAE standard eInvoice xml format (*if C2 has received the eInvoice in a different format from C1*).
3. C2 transmits the eInvoice (in the xml format) with the buyer's UAE accredited Service Provider (Corner 3)
4. C3 send an acknowledgement to the C2 that the eInvoice has been received successfully and transmits the eInvoice to the buyer (Corner 4)
5. C2 reports the tax related data of the eInvoice to the central data platform that is managed by the FTA (Corner 5)
6. C5 sends an acknowledgement to the C2 that the eInvoice has been successfully reported.
7. C2 forwards the C3 exchange acknowledgment and C5 reporting acknowledgement to C1

Key dates:

- **Q4 2024:** UAE Service Provider accreditation procedures/Accreditation of Service Providers
- **Q2 2025:** EInvoicing related Legislation updates
- **Q2 2026:** Phase 1 go-live of eInvoicing reporting

More details: <https://mof.gov.ae/einvoicing/>

PINT Updates - UAE DCTCE and PINT [2/3]



PINT Updates – Previous material [3/3]



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- Malaysia Mandate and PINT: <https://www.oxalis.network/tech-dialog-meeting-060324>
 - Singapore PINT and IRAS Reporting: <https://www.oxalis.network/tech-dialog-meeting-120624>

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://norstellaoxalis.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