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Hague Web Services

New machine-to-machine bi-directional data exchange between WIPO and national intellectual property offices

hague.it@wipo.int

May 2022

Overview

- Growth
- Hague Web Services
- Security
- Protocol and Standards
- Services
- Next Steps

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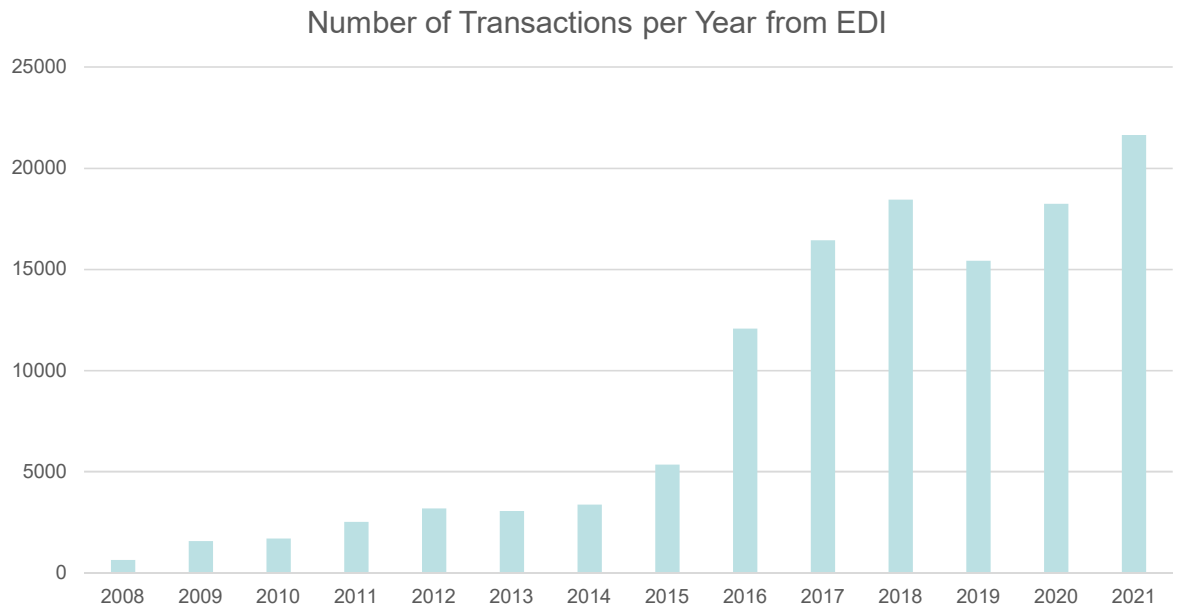
Growth

- Increasing number of transactions
- Demand for secure, reliable, fast, two-way communication
- Demand for scalability and automation



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Hague Web Services

HWS are a secure, highly-available, reliable, HTTPS/REST API-based protocol for exchanging data with the Hague System:

- Send decisions or indirect applications
- Query import and processing status
- Retrieve Hague Bulletins
- Retrieve confidential copies

M2M two-way communication between the IB and IPO:

- REST API
- Standards-based: HTTPS, Oauth 2.0, FAPI 1.0, ST.90, ST.96
- Secure

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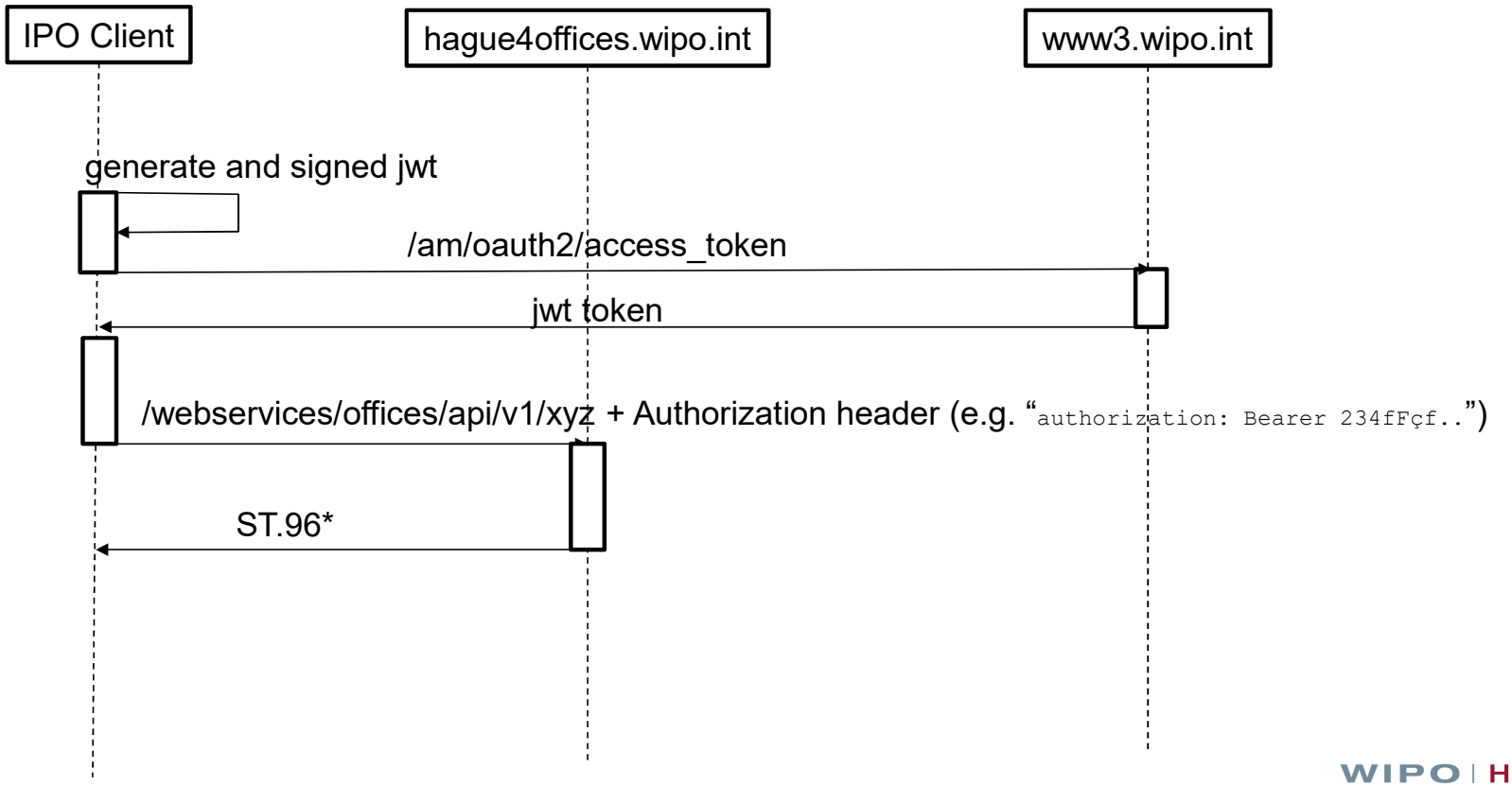
Security

Defense in depth:

- IPO IP Whitelisting
- Several levels of firewall continuously updated with new rules
- Automatic intrusion detection and alarms
- Observability of the infrastructure and servers at several levels
- HTTPS
- OAuth2.0 and FAPI 1.0 Authentication asymetric public/private key pairs (i.e. IB does not know the private key)

Protocol and Standards



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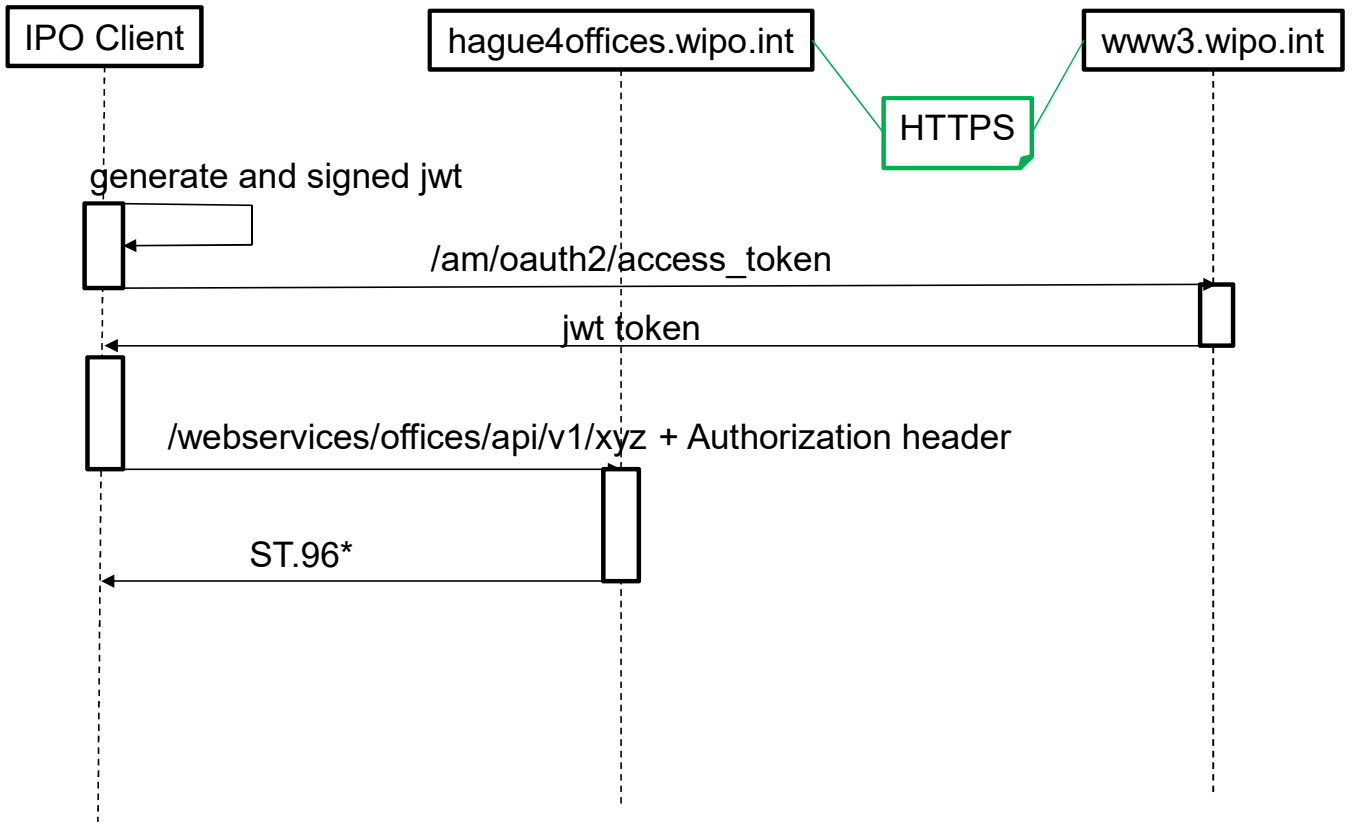
* Extensions of ST.96 are required for the import and processing status payloads.

Protocol and Standards



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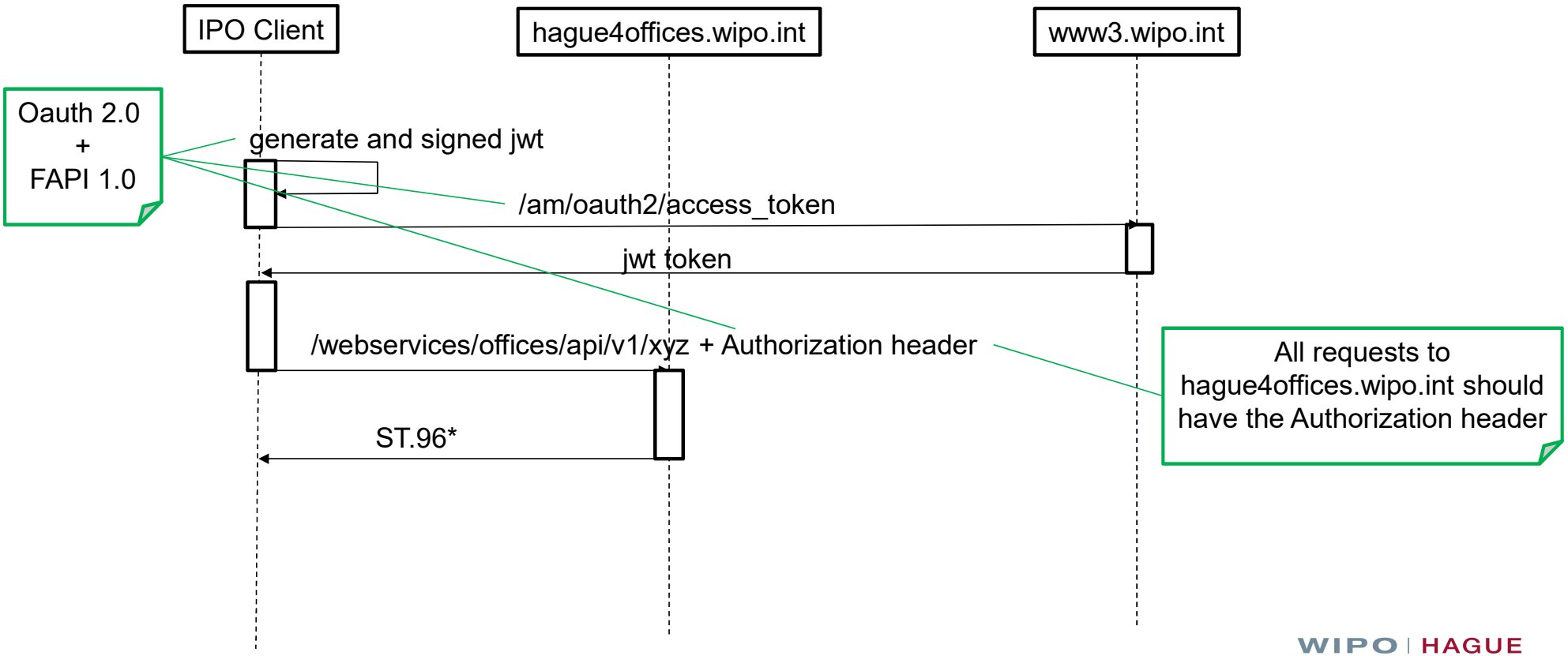

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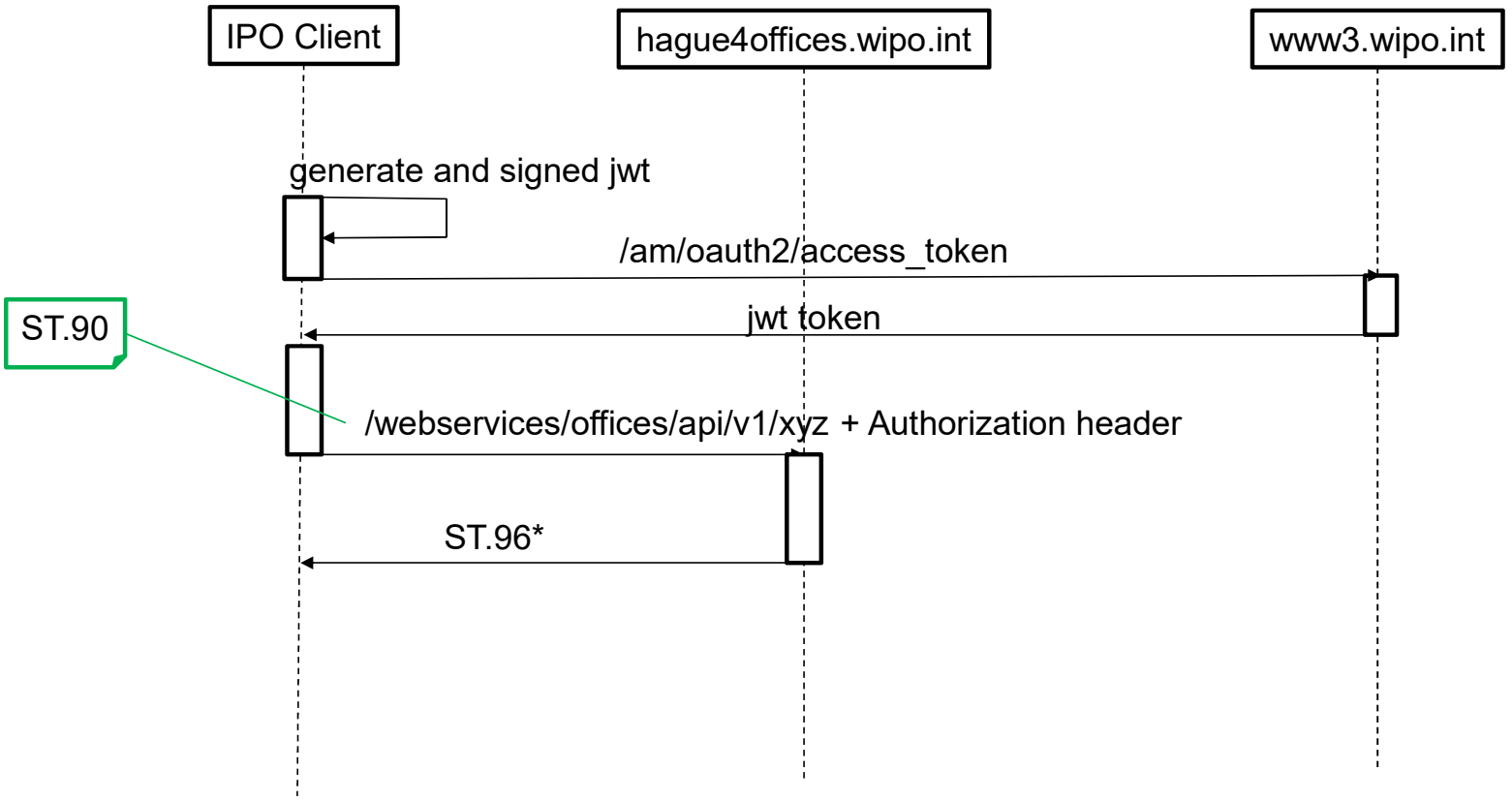

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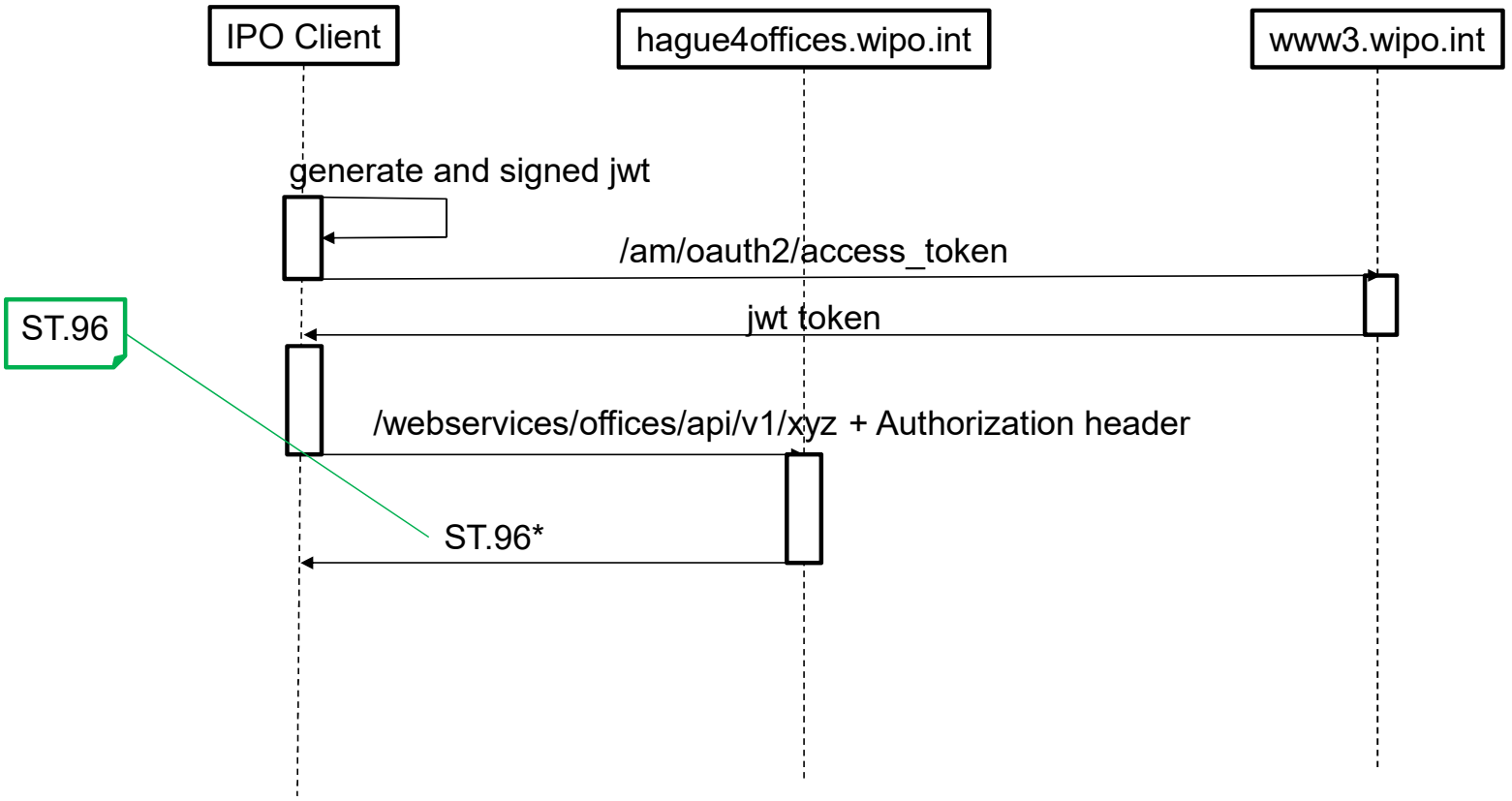

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* Extensions of ST.96 are required for the import and processing status payloads.

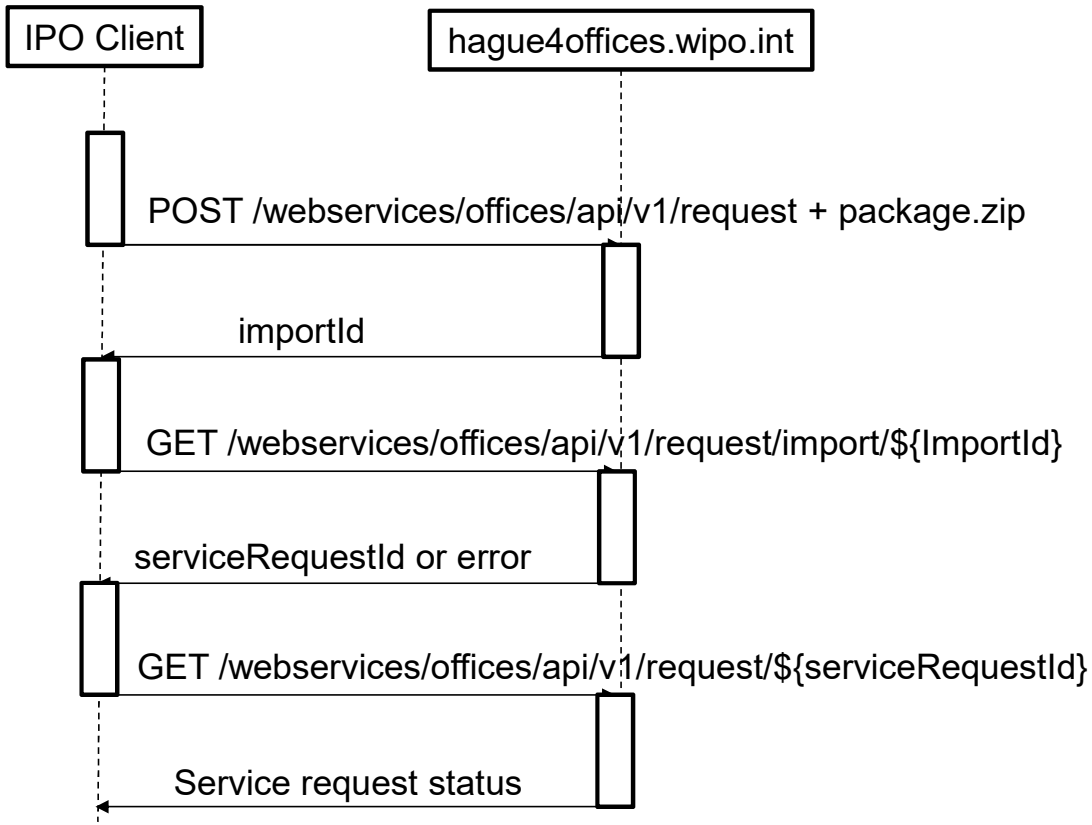
Services

- Send indirect applications and check their import and processing status
- Send decisions and check their import and processing status
- Retrieve Confidential Copy
- Retrieve Bulletin

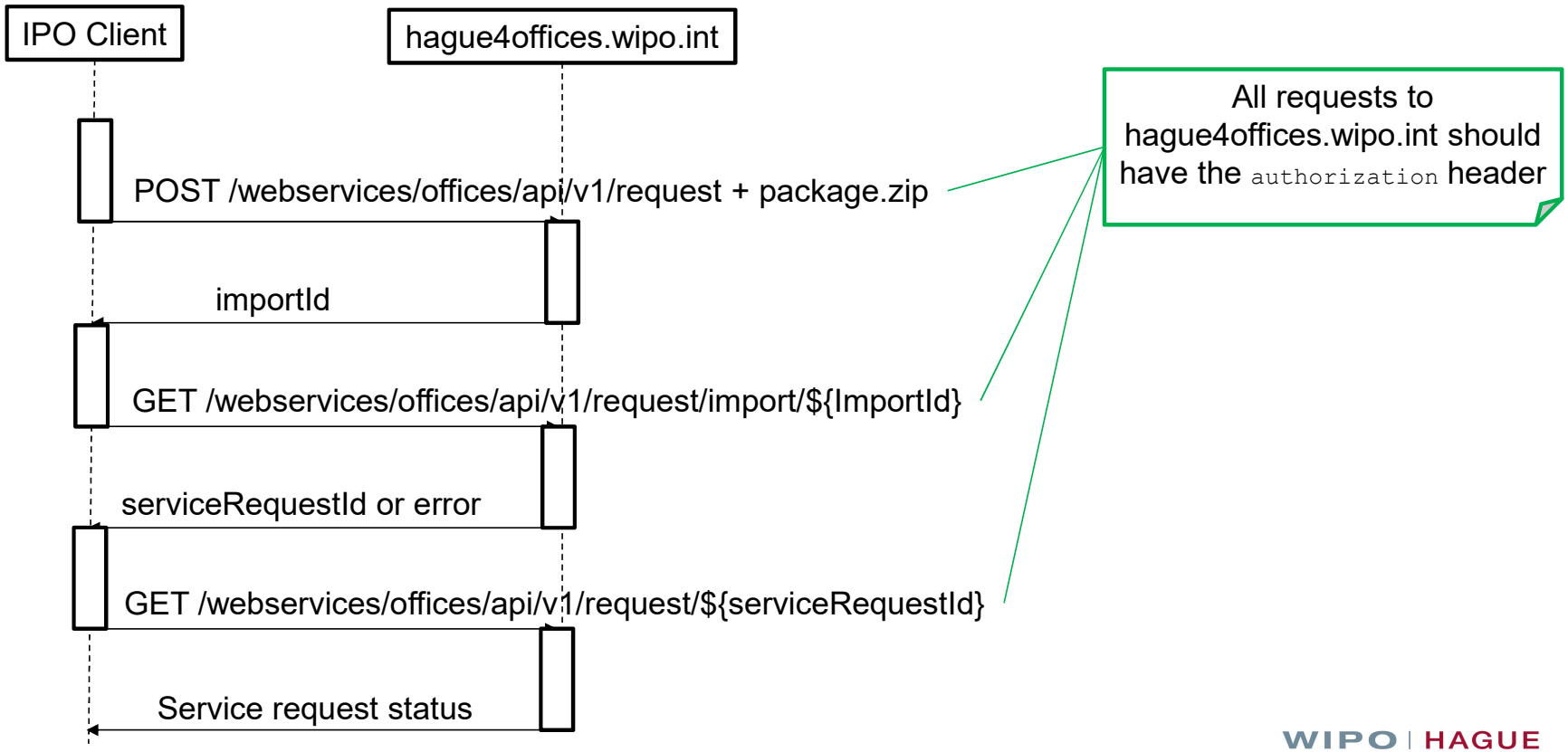
An office can use one or more of these services as best suits their needs.

For example, if an office does not send indirect applications but would like a more efficient channel to access the Hague Bulletin, it can use the Hague Web Services to do so.

Services: Indirect Filing



Services: Indirect Filing



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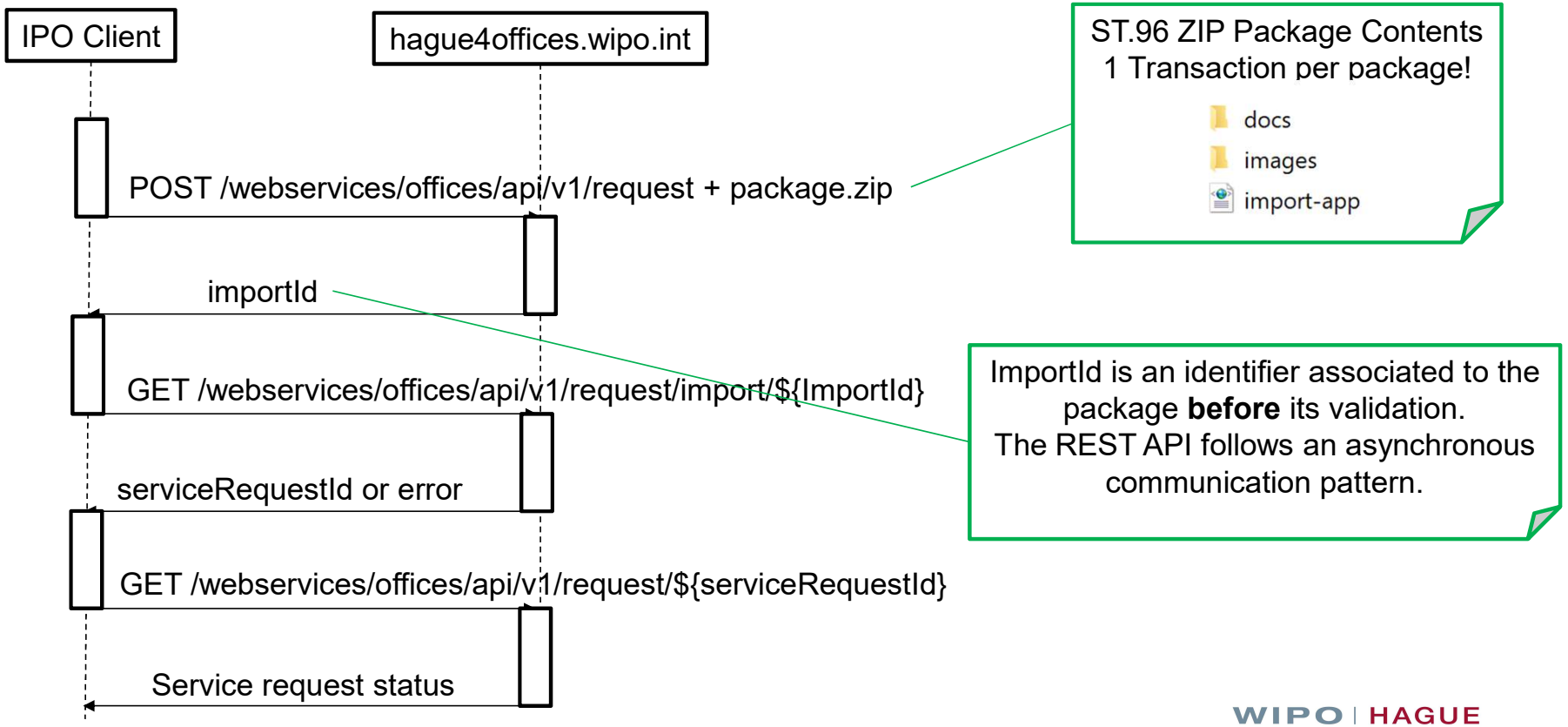

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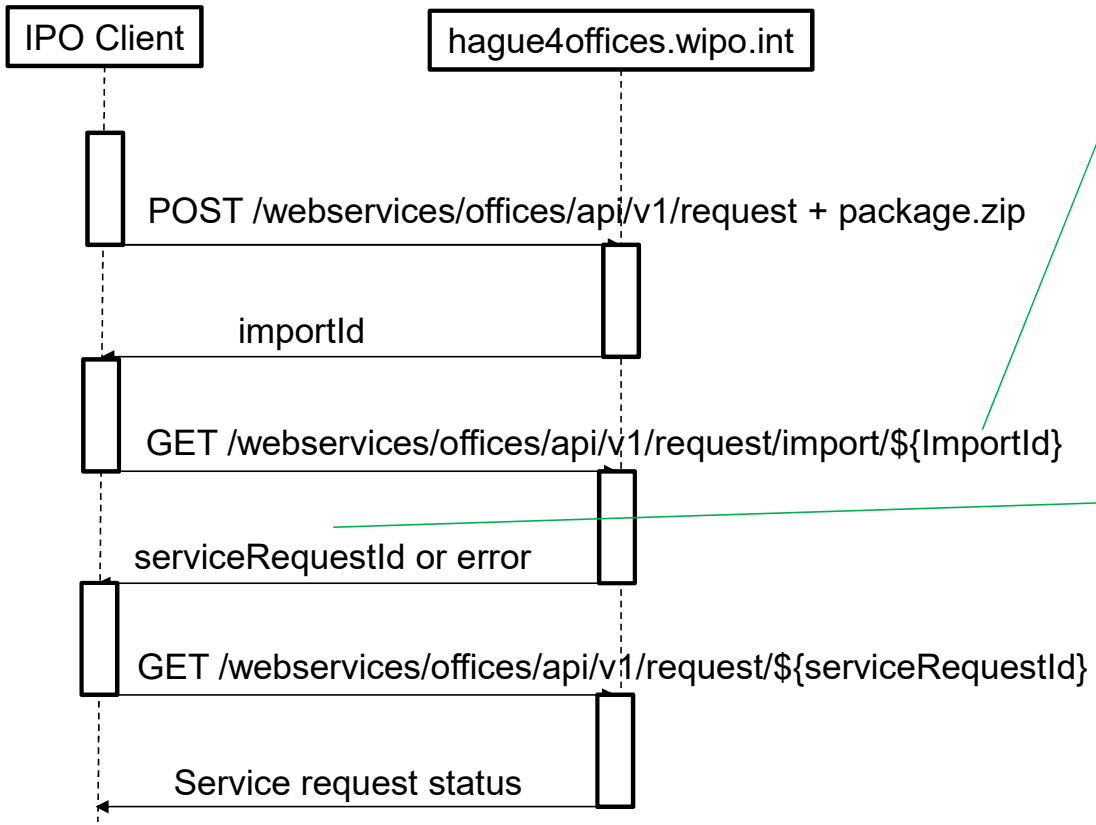

The importId is used to get the result of the validation and import process.
Is the package well-formed and valid?

ST.96 4.X
Import status with the serviceRequestId or the reasons behind the failed import

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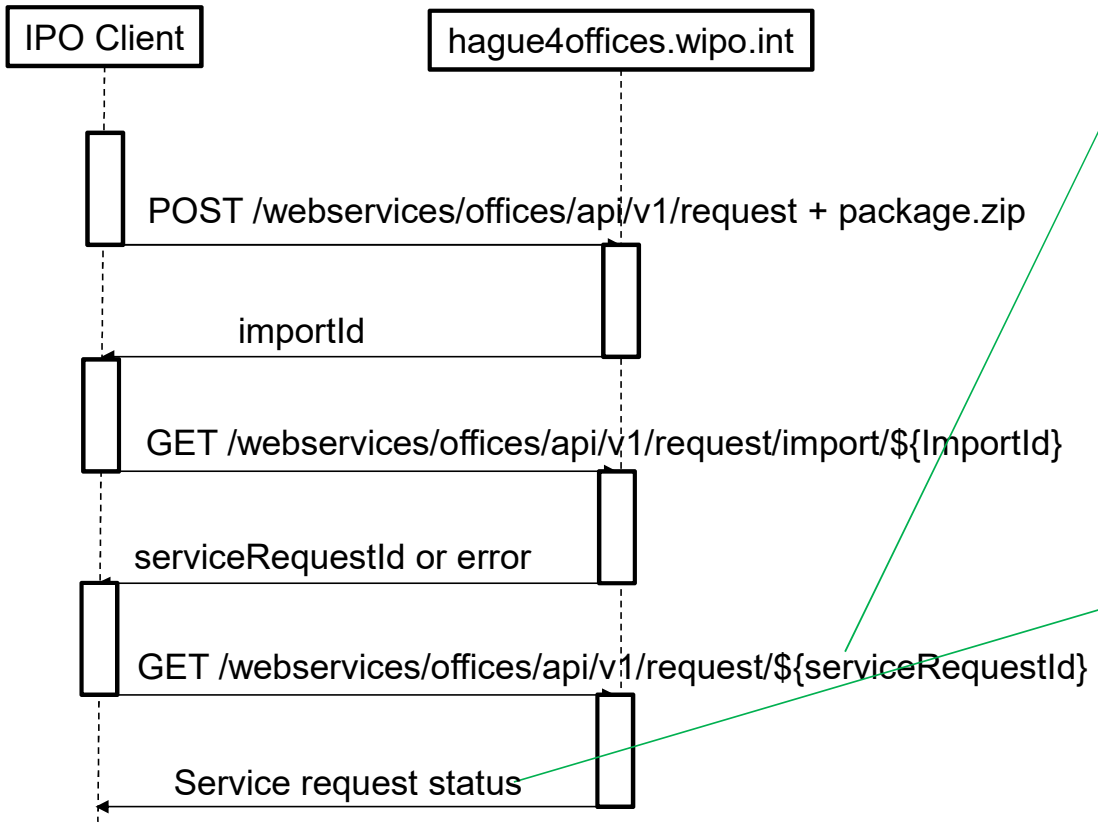
Services: Indirect Filing



The serviceRequestId is used to get the processing status of the indirect filing.

ST.96 4.X

ServiceRequestId

Status:

- UNDER_EXAMINATION
- PENDING_REGULARIZATION
- RECORDED
- ABANDONED
- CANCELLED

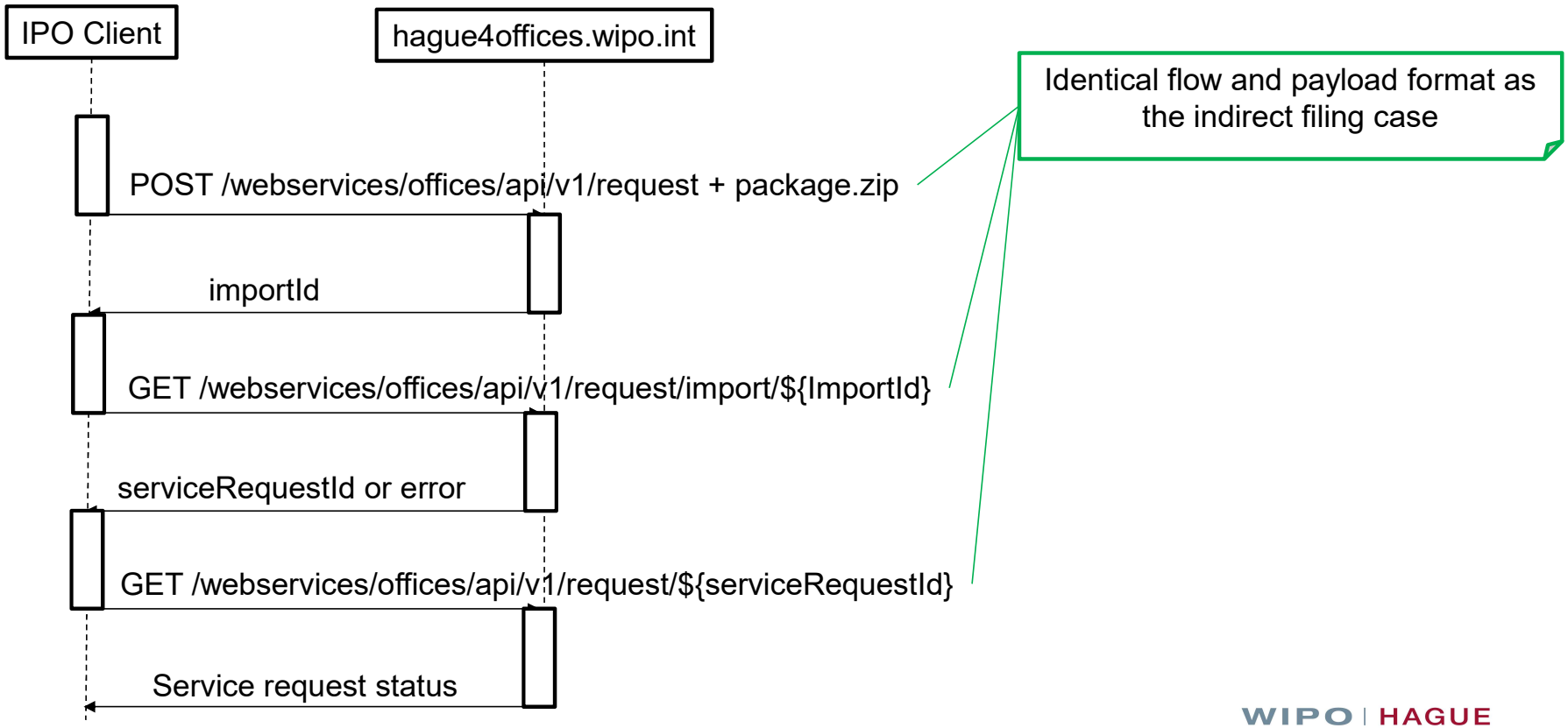
IRN (optional)

RecordId (optional)

RecordingDate (optional)

PublicationDate (optional)

Services: Decisions



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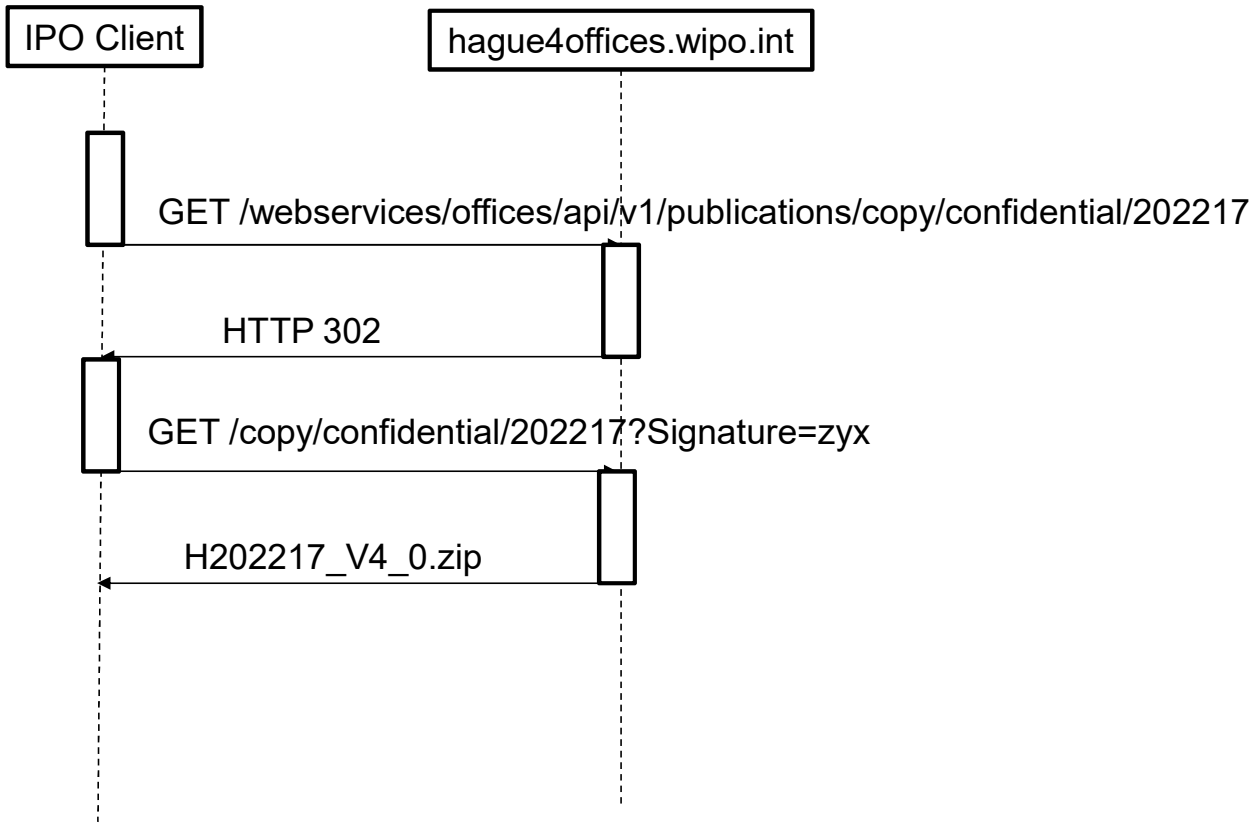
Services: Confidential Copy



Services: Confidential Copy

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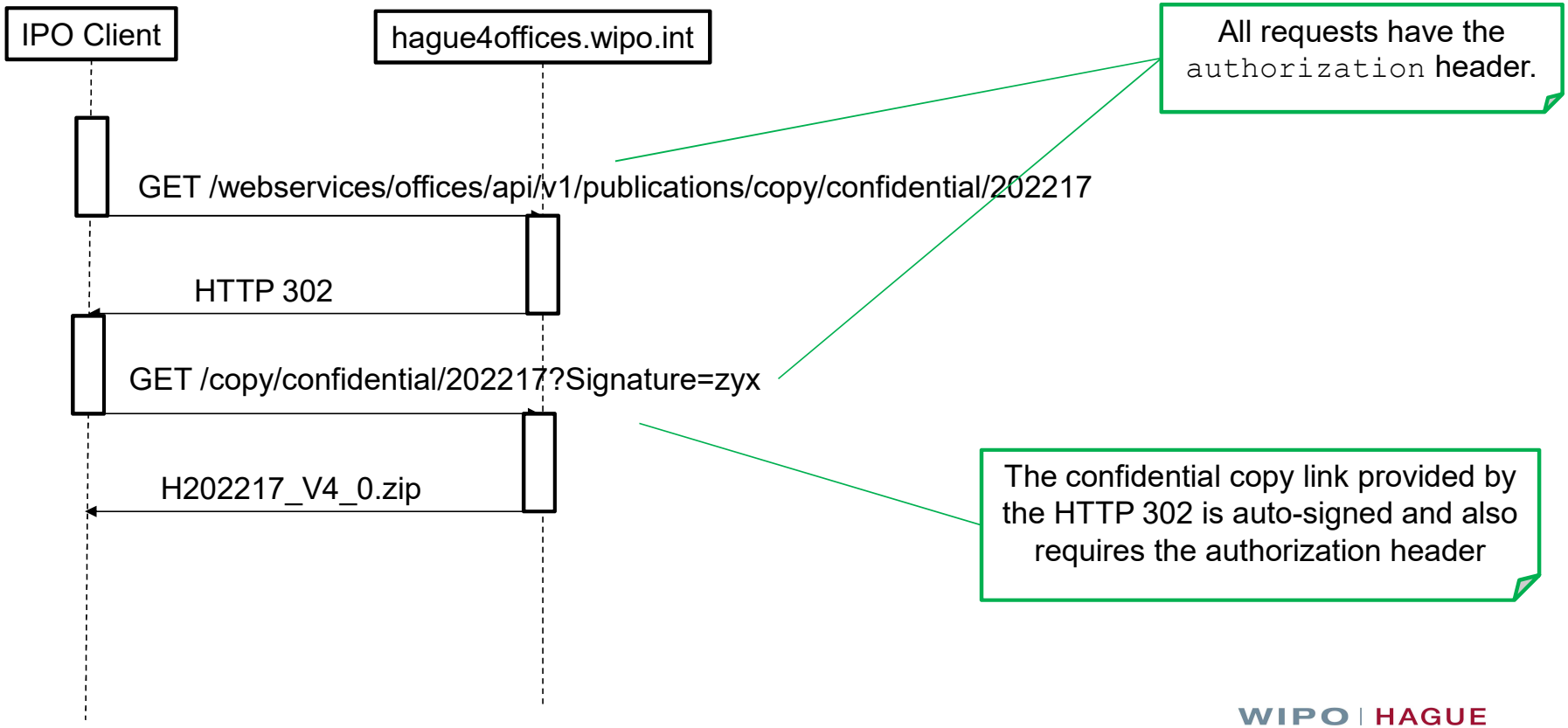

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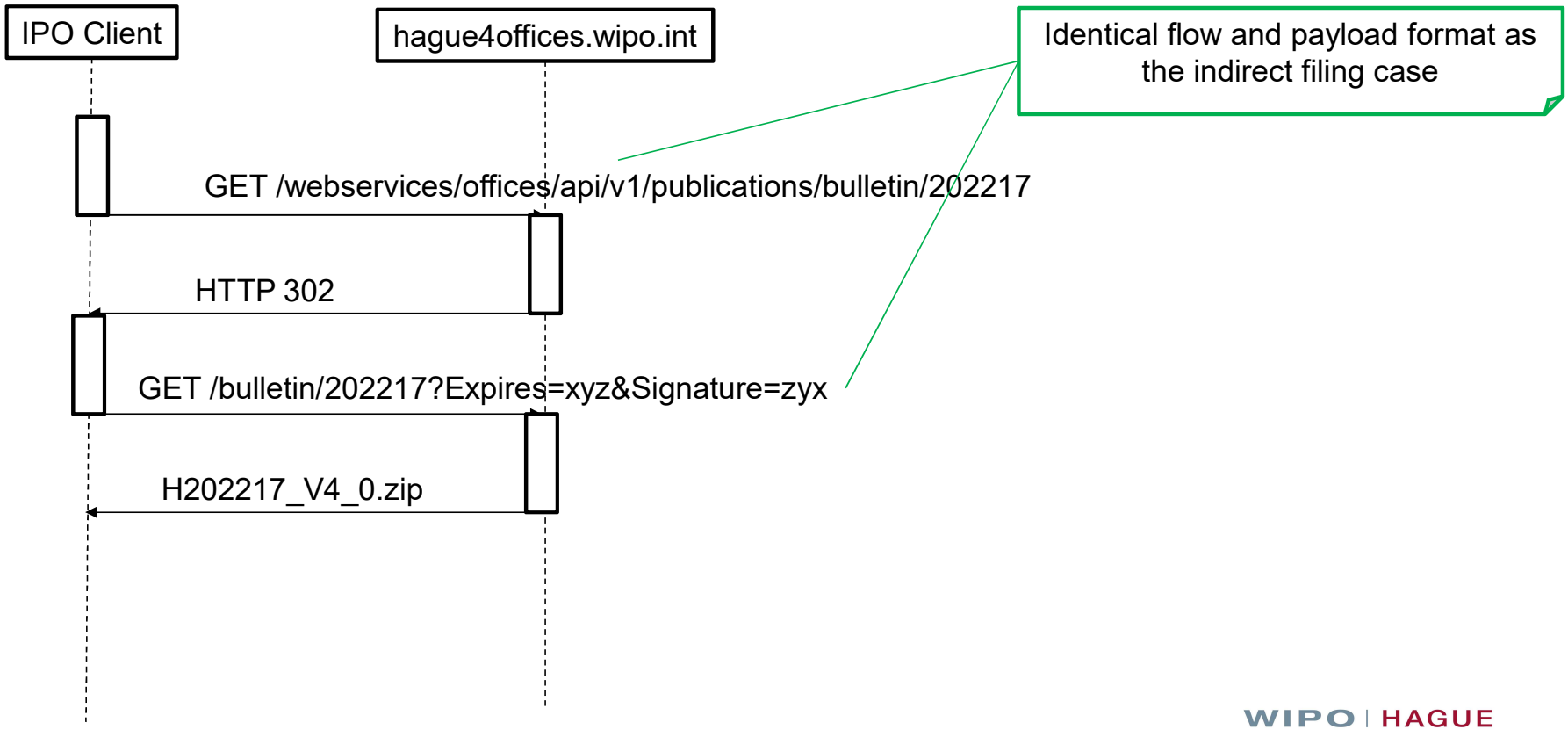
Services: Bulletin



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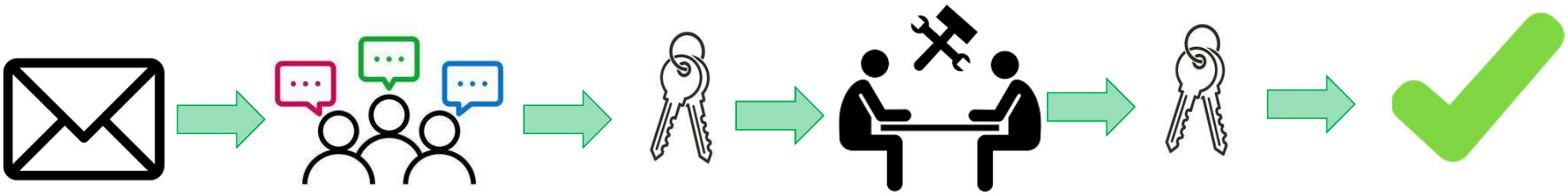
Next Steps

1. Contact hague.it@wipo.int with your questions or to request documentation and client examples
   - End-to-end documentation
   - RAML REST API description
   - Java client code example
2. Let's discuss and plan together at your pace
3. IPO generates their private/public key for Acceptance and request Acceptance credentials
4. Let's work together until your system is ready
5. IPO generates their private/public key for Production and request Production credentials
6. Go!



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