

# Säilytysraportin tulkinta ja virhetilanteet

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Sovellusasiantuntija

PAS-ylläpito

# Validointiraportin noutaminen 1/5

- Validointiraportti on saatavilla kahdessa eri muodossa. XML-muoto on koneluettava ja kattava, HTML-muoto on ihmislueettava ja lyhennetty.
- XML-muoto näyttää varmasti hankalalta, mutta sitä ei kannata pelästyä! XML-muotoisen raportin voi virhetilanteissa lähettää meille tulkittavaksi.
- Raportin voi noutaa kahdella eri tavalla: SFTP-protokollalla käyttäjän kotihakemistosta tai REST-rajapinnan kautta.

# Raportin noutaminen SFTP:llä

- PAS-järjestelmässä käyttäjän kotihakemistossa on ainakin seuraavat hakemistot:
  - accepted
  - rejected
  - transfer

# Raportin noutaminen SFTP:llä

- Hyväksytyjen pakettien raportit ovat `accepted-` hakemistossa, hylättyjen pakettien raportit `rejected-` hakemistossa.
- Raportit ovat tämän tyyppisessä hakemistopolussa:  
`accepted/2023-04-25/paketinnimi.tar`  
(Tässä paketinnimi.tar on nimestään huolimatta hakemisto!)
- Raporttitiedoston nimi on mallia `paketinnimi.tar-uuid-ingest-report.xml` (tai `.html`)

# Raportin noutaminen RESTillä

REST-rajapinnasta raportin saa noudettua seuraavasti

Noudetaan luettelo tietyn siirtopaketin raporteista:

```
GET <base>/<contract>/ingest/report/<objid>
```

Tästä saadaan vastauksena tämän tyyppistä JSONia:

```
{  
  "status": "success",  
  "data": {  
    "results": [  
      {  
        "download": {  
          "html": "<report-url?type=html",  
          "xml": "<report-url?type=xml"  
        }  
      },  
    ]  
  }  
}
```

# Raportin noutaminen RESTillä

XML- ja HTML-raportit voidaan noutaa tähän tapaan:

```
GET <report-url>?type=xml  
GET <report-url>?type=html
```

Katsotaan ensin HTML-muotoista  
raporttia...

# XML-muotoinen raportti noudattaa PREMIS-skeemaa

PREMIS-skeema perustuu PREMIS Data Dictionaryyn

*The PREMIS Data Dictionary [...] is a [...] practical resource for implementing preservation metadata in digital archiving systems. The Data Dictionary is built on a data model that defines four entities: Objects, Events, Rights, and Agents.*



# PREMIS-raportti

## Juurielementti ja ensimmäinen objekti

```
1 <premis:premis xmlns:premis="info:lc/xmlns/premis-v2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation=
2 <premis:object xsi:type="premis:representation">
3   <premis:objectIdentifier>
4     <premis:objectIdentifierType>preservation-signature-id</premis:objectIdentifierType>
5     <premis:objectIdentifierValue>f380123c-859a-427a-8307-671d814f9f6e</premis:objectIdentifierValue>
6   </premis:objectIdentifier>
7   <premis:originalName>signature.sig</premis:originalName>
8   <premis:relationship>
9     <premis:relationshipType>structural</premis:relationshipType>
10    <premis:relationshipSubType>is included in</premis:relationshipSubType>
11    <premis:relatedObjectIdentification>
12      <premis:relatedObjectIdentifierType>preservation-sip-id</premis:relatedObjectIdentifierType>
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```

# Raportin toinen premis-objekti kertoo, että SIPiin kuuluu tiedosto mets.xml, jolle annetaan ID

```
<premis:object xsi:type="premis:representation">
  <premis:objectIdentifier>
    <premis:objectIdentifierType>preservation-mets-id</premis:objectIdentifierType>
    <premis:objectIdentifierValue>5c1a16aa-1c9d-44b5-aa8d-8402c80b50e5</premis:objectIdentifierValue>
  </premis:objectIdentifier>
  <premis:originalName>mets.xml</premis:originalName>
  <premis:relationship>
    <premis:relationshipType>structural</premis:relationshipType>
    <premis:relationshipSubType>is included in</premis:relationshipSubType>
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```



Seuraavana tulee yksi premis-objekti jokaista paketissa ollutta digitaalista objektia kohti.

Tämä objekti antaa tiedostolle ID:n ja kertoo, että tiedosto kuuluu SIPiin.

```
1 <premis:object xsi:type="premis:representation">
2   <premis:objectIdentifier>
3     <premis:objectIdentifierType>preservation-object-id</premis:objectIdentifierType>
4     <premis:objectIdentifierValue>b19d6bb7-07d3-4864-a4b0-083e3d875aad</premis:objectIdentifierValue>
5   </premis:objectIdentifier>
6   <premis:originalName>/var/spool/preservation/local/ingest/organisaatio1/
7 csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-a540fe49-cfd9-4ea4-afe9-056fad93f447/
8 aips-in-progress/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e1d957a3-c82e-44fc-b766-5
9 data/transfers/csc_test_valid_sip_multiple_digital_objects/
10 asettamiset/122390_OPM_paatos_20.05.2008_12-02-42.pdf</premis:originalName>
11   <premis:environment>
12     <premis:dependency>
13       <premis:dependencyIdentifier>
14         <premis:dependencyIdentifierType>UUID</premis:dependencyIdentifierType>
15         <premis:dependencyIdentifierValue>66a2987f-4e14-4aad-b262-528e1a5b64bc</premis:dependencyIdentifierValue>
16       </premis:dependencyIdentifier>
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10 asettamiset/122390_OPM_paatos_20.05.2008_12-02-42.pdf</premis:originalName>
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7   csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip</premis:originalName>
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11        <premis:dependencyIdentifierType>mets:OBJID</premis:dependencyIdentifierType>
12        <premis:dependencyIdentifierValue>d373e7a2-f069-461a-87ec-1d68ec22fcae</premis:dependencyIdentifierValue>
13      </premis:dependencyIdentifier>
14    </premis:dependency>
15    <premis:dependency>
16      <premis:dependencyIdentifier>
17        <premis:dependencyIdentifierType>preservation-contract-id</premis:dependencyIdentifierType>
18        <premis:dependencyIdentifierValue>urn:uuid:89e92a4f-f0e4-4768-b785-4781d3299b20</premis:dependencyIdentifierValue>
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Seuraavana on premis-objekti AIPille, jonka merkitään olevan lähtöisin SIPistä

Tässä tapahtumassa erityisen tärkeä on AIPin tunnus (preservation-aip-id)

```
1 <premis:object xsi:type="premis:representation">
2   <premis:objectIdentifier>
3     <premis:objectIdentifierType>preservation-aip-id</premis:objectIdentifierType>
4     <premis:objectIdentifierValue>csc_test_valid_sip_multiple_digital_objects-
5 0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e1d957a3-c82e-44fc-b766-528bae402264.tar</premis:objectIdentifierValue>
6   </premis:objectIdentifier>
7   <premis:originalName>csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e1d957a3-c82e-44fc-
8 <premis:relationship>
9   <premis:relationshipType>derivation</premis:relationshipType>
10  <premis:relationshipSubType>has source</premis:relationshipSubType>
11  <premis:relatedObjectIdentification>
12    <premis:relatedObjectIdentifierType>preservation-sip-id</premis:relatedObjectIdentifierType>
13    <premis:relatedObjectIdentifierValue>a540fe49-cfd9-4ea4-afe9-056fad93f447</premis:relatedObjectIdentifierValue>
14  </premis:relatedObjectIdentification>
15  </premis:relationship>
16 </premis:object>
```



Seuraavana on premis-objekti AIPille, jonka merkitään olevan lähtöisin SIPistä

Tässä tapahtumassa erityisen tärkeä on AIPin tunnus (preservation-aip-id)

```
1 <premis:object xsi:type="premis:representation">
2   <premis:objectIdentifier>
3     <premis:objectIdentifierType>preservation-aip-id</premis:objectIdentifierType>
4     <premis:objectIdentifierValue>csc_test_valid_sip_multiple_digital_objects-
5 0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e1d957a3-c82e-44fc-b766-528bae402264.tar</premis:objectIdentifierValue>
6   </premis:objectIdentifier>
7   <premis:originalName>csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e1d957a3-c82e-44fc-
8 </premis:originalName>
9   <premis:relationship>
10    <premis:relationshipType>derivation</premis:relationshipType>
11    <premis:relationshipSubType>has source</premis:relationshipSubType>
12    <premis:relatedObjectIdentification>
13      <premis:relatedObjectIdentifierType>preservation-sip-id</premis:relatedObjectIdentifierType>
14      <premis:relatedObjectIdentifierValue>a540fe49-cfd9-4ea4-afe9-056fad93f447</premis:relatedObjectIdentifierValue>
15    </premis:relatedObjectIdentification>
16  </premis:relationship>
</premis:object>
```

# Seuraavana validoinnin tulokset

- Validointitapahtumat merkitään premis-tapahtumina.
- Tärkein katsottava on `eventOutcome` – onnistuiko vai epäonnistuiko tapahtuma.
- Lisätietoja on yleensä `eventOutcomeDetailNote`ssa. Meidän raporteissamme siellä on usein validaattoreiden antamia tulosteita ja paluuarvoja.

# Esimerkki: paketin allekirjoituksen tarkistus

Tässä tapauksessa tiedämme, että mets.xml:n allekirjoitus on  
validi

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>8bef2c2b-97df-49ee-8e49-697ee61c52a1</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>digital signature validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.316624</premis:eventDateTime>
8   <premis:eventDetail>Submission information package digital signature validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10     <premis:eventOutcome>success</premis:eventOutcome>
11     <premis:eventOutcomeDetail>
12       <premis:eventOutcomeDetailNote>COMMAND: ['verify-signed-file-3', '-s', '/var/spool/preservation/local/ingest/organisaat
13 CWD: None
14 RETURNCODE: 0
15 STDOUT:
16
17 STDERR:
18 </premis:eventOutcomeDetailNote>
19   </premis:eventOutcomeDetail>
20 </premis:eventOutcomeInformation>
21 <premis:linkingAgentIdentifier>
22   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
23   <premis:linkingAgentIdentifierValue>preservation-agent-check_signature.py-v0.0-8507b015-f71b-4552-bb68-76d51ecd36f6</premis:linkingAgentIdentifierValue>
24 </premis:linkingAgentIdentifier>
25 <premis:linkingObjectIdentifier>
26   <premis:linkingObjectIdentifierType>preservation-signature-id</premis:linkingObjectIdentifierType>
27   <premis:linkingObjectIdentifierValue>f380123c-859a-427a-8307-671d814f9f6e</premis:linkingObjectIdentifierValue>
28 </premis:linkingObjectIdentifier>
29 </premis:event>
```

# Esimerkki: paketin allekirjoituksen tarkistus

Tässä tapauksessa tiedämme, että mets.xml:n allekirjoitus on validi

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>8bef2c2b-97df-49ee-8e49-697ee61c52a1</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>digital signature validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.316624</premis:eventDateTime>
8   <premis:eventDetail>Submission information package digital signature validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10     <premis:eventOutcome>success</premis:eventOutcome>
11     <premis:eventOutcomeDetail>
12       <premis:eventOutcomeDetailNote>COMMAND: ['verify-signed-file-3', '-s', '/var/spool/preservation/local/ingest/organisaat
13 CWD: None
14 RETURNCODE: 0
15 STDOUT:
16
17 STDERR:
18 </premis:eventOutcomeDetailNote>
19   </premis:eventOutcomeDetail>
20 </premis:eventOutcomeInformation>
21 <premis:linkingAgentIdentifier>
22   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
23   <premis:linkingAgentIdentifierValue>preservation-agent-check_signature.py-v0.0-8507b015-f71b-4552-bb68-76d51ecd36f6</premis:linkingAgentIdentifierValue>
24 </premis:linkingAgentIdentifier>
25 <premis:linkingObjectIdentifier>
26   <premis:linkingObjectIdentifierType>preservation-signature-id</premis:linkingObjectIdentifierType>
27   <premis:linkingObjectIdentifierValue>f380123c-859a-427a-8307-671d814f9f6e</premis:linkingObjectIdentifierValue>
28 </premis:linkingObjectIdentifier>
29 </premis:event>
```

# Esimerkki: paketin allekirjoituksen tarkistus

Tässä tapauksessa tiedämme, että mets.xml:n allekirjoitus on  
validi

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>8bef2c2b-97df-49ee-8e49-697ee61c52a1</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>digital signature validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.316624</premis:eventDateTime>
8   <premis:eventDetail>Submission information package digital signature validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10     <premis:eventOutcome>success</premis:eventOutcome>
11     <premis:eventOutcomeDetail>
12       <premis:eventOutcomeDetailNote>COMMAND: ['verify-signed-file-3', '-s', '/var/spool/preservation/local/ingest/organisaat
13 CWD: None
14 RETURNCODE: 0
15 STDOUT:
16
17 STDERR:
18 </premis:eventOutcomeDetailNote>
19   </premis:eventOutcomeDetail>
20 </premis:eventOutcomeInformation>
21 <premis:linkingAgentIdentifier>
22   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
23   <premis:linkingAgentIdentifierValue>preservation-agent-check_signature.py-v0.0-8507b015-f71b-4552-bb68-76d51ecd36f6</premis:linkingAgentIdentifierValue>
24 </premis:linkingAgentIdentifier>
25 <premis:linkingObjectIdentifier>
26   <premis:linkingObjectIdentifierType>preservation-signature-id</premis:linkingObjectIdentifierType>
27   <premis:linkingObjectIdentifierValue>f380123c-859a-427a-8307-671d814f9f6e</premis:linkingObjectIdentifierValue>
28 </premis:linkingObjectIdentifier>
29 </premis:event>
```

# Esimerkki: paketin allekirjoituksen tarkistus

Tässä tapauksessa tiedämme, että mets.xml:n allekirjoitus on  
validi

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>8bef2c2b-97df-49ee-8e49-697ee61c52a1</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>digital signature validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.316624</premis:eventDateTime>
8   <premis:eventDetail>Submission information package digital signature validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>COMMAND: ['verify-signed-file-3', '-s', '/var/spool/preservation/local/ingest/organisaat
13 CWD: None
14 RETURNCODE: 0
15 STDOUT:
16
17 STDERR:
18 </premis:eventOutcomeDetailNote>
19   </premis:eventOutcomeDetail>
20 </premis:eventOutcomeInformation>
21 <premis:linkingAgentIdentifier>
22   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
23   <premis:linkingAgentIdentifierValue>preservation-agent-check_signature.py-v0.0-8507b015-f71b-4552-bb68-76d51ecd36f6</premis:linkingAgentIdentifierValue>
24 </premis:linkingAgentIdentifier>
25 <premis:linkingObjectIdentifier>
26   <premis:linkingObjectIdentifierType>preservation-signature-id</premis:linkingObjectIdentifierType>
27   <premis:linkingObjectIdentifierValue>f380123c-859a-427a-8307-671d814f9f6e</premis:linkingObjectIdentifierValue>
28 </premis:linkingObjectIdentifier>
29 </premis:event>
```

# Esimerkki: paketin allekirjoituksen tarkistus

Tässä tapauksessa tiedämme, että mets.xml:n allekirjoitus on  
validi

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>8bef2c2b-97df-49ee-8e49-697ee61c52a1</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>digital signature validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.316624</premis:eventDateTime>
8   <premis:eventDetail>Submission information package digital signature validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>COMMAND: ['verify-signed-file-3', '-s', '/var/spool/preservation/local/ingest/organisaat
13 CWD: None
14 RETURNCODE: 0
15 STDOUT:
16
17 STDERR:
18 </premis:eventOutcomeDetailNote>
19   </premis:eventOutcomeDetail>
20 </premis:eventOutcomeInformation>
21 <premis:linkingAgentIdentifier>
22   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
23   <premis:linkingAgentIdentifierValue>preservation-agent-check_signature.py-v0.0-8507b015-f71b-4552-bb68-76d51ecd36f6</premis:linkingAgentIdentifierValue>
24 </premis:linkingAgentIdentifier>
25 <premis:linkingObjectIdentifier>
26   <premis:linkingObjectIdentifierType>preservation-signature-id</premis:linkingObjectIdentifierType>
27   <premis:linkingObjectIdentifierValue>f380123c-859a-427a-8307-671d814f9f6e</premis:linkingObjectIdentifierValue>
28 </premis:linkingObjectIdentifier>
29 </premis:event>
```

# Esimerkki: paketin allekirjoituksen tarkistus

Tässä tapauksessa tiedämme, että mets.xml:n allekirjoitus on  
validi

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>8bef2c2b-97df-49ee-8e49-697ee61c52a1</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>digital signature validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.316624</premis:eventDateTime>
8   <premis:eventDetail>Submission information package digital signature validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>COMMAND: ['verify-signed-file-3', '-s', '/var/spool/preservation/local/ingest/organisaat
13 CWD: None
14 RETURNCODE: 0
15 STDOUT:
16
17 STDERR:
18 </premis:eventOutcomeDetailNote>
19   </premis:eventOutcomeDetail>
20 </premis:eventOutcomeInformation>
21 <premis:linkingAgentIdentifier>
22   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
23   <premis:linkingAgentIdentifierValue>preservation-agent-check_signature.py-v0.0-8507b015-f71b-4552-bb68-76d51ecd36f6</premis:linkingAgentIdentifierValue>
24 </premis:linkingAgentIdentifier>
25 <premis:linkingObjectIdentifier>
26   <premis:linkingObjectIdentifierType>preservation-signature-id</premis:linkingObjectIdentifierType>
27   <premis:linkingObjectIdentifierValue>f380123c-859a-427a-8307-671d814f9f6e</premis:linkingObjectIdentifierValue>
28 </premis:linkingObjectIdentifier>
29 </premis:event>
```



# Muita oleellisia validointitapahtumia

- METS schema validation
  - Tuloste usein huomattavan pitkä, lyhennämme sitä ohjelmallisesti
- Additional METS validation of required features
  - Schematron-tarkastus
  - Duplikaatti-objid-tarkastus
- Validation compilation eli validoinnin yhteenveto

# Lisää esimerkkejä premis-tapahtumista

## Digitaalisten objektien eheystarkastus

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>0b90c941-2fa7-43aa-96e5-69e156e96cd8</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>fixity check</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.461899</premis:eventDateTime>
8   <premis:eventDetail>Fixity check of digital objects in submission information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Checksum OK: asettamiset/122390_OPM_paatos_20.05.2008_12-02-42.pdf
13 Checksum OK: asettamiset/128343_Vihanta.pdf
14 ...
15 ...
16 </premis:eventOutcomeDetailNote>
17   </premis:eventOutcomeDetail>
18 </premis:eventOutcomeInformation>
19 <premis:linkingAgentIdentifier>
20   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
21   <premis:linkingAgentIdentifierValue>preservation-agent-check_checksums.py-v0.0-ab97604a-21c2-48aa-bd5e-60f38944ba65</premis:linkingAgentIdentifierValue>
22 </premis:linkingAgentIdentifier>
23 <premis:linkingObjectIdentifier>
24   <premis:linkingObjectIdentifierType>preservation-sip-id</premis:linkingObjectIdentifierType>
25   <premis:linkingObjectIdentifierValue>a540fe49-cfd9-4ea4-afe9-056fad93f447</premis:linkingObjectIdentifierValue>
26 </premis:linkingObjectIdentifier>
27 </premis:event>
```

# Lisää esimerkkejä premis-tapahtumista

## Digitaalisten objektien eheystarkastus

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>0b90c941-2fa7-43aa-96e5-69e156e96cd8</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>fixity check</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.461899</premis:eventDateTime>
8   <premis:eventDetail>Fixity check of digital objects in submission information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Checksum OK: asettamiset/122390_OPM_paatos_20.05.2008_12-02-42.pdf
13 Checksum OK: asettamiset/128343_Vihanta.pdf
14 ...
15 ...
16 </premis:eventOutcomeDetailNote>
17   </premis:eventOutcomeDetail>
18 </premis:eventOutcomeInformation>
19 <premis:linkingAgentIdentifier>
20   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
21   <premis:linkingAgentIdentifierValue>preservation-agent-check_checksums.py-v0.0-ab97604a-21c2-48aa-bd5e-60f38944ba65</premis:linkingAgentIdentifierValue>
22 </premis:linkingAgentIdentifier>
23 <premis:linkingObjectIdentifier>
24   <premis:linkingObjectIdentifierType>preservation-sip-id</premis:linkingObjectIdentifierType>
25   <premis:linkingObjectIdentifierValue>a540fe49-cfd9-4ea4-afe9-056fad93f447</premis:linkingObjectIdentifierValue>
26 </premis:linkingObjectIdentifier>
27 </premis:event>
```

# Lisää esimerkkejä premis-tapahtumista

## Digitaalisten objektien eheystarkastus

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>0b90c941-2fa7-43aa-96e5-69e156e96cd8</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>fixity check</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:47.461899</premis:eventDateTime>
8   <premis:eventDetail>Fixity check of digital objects in submission information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Checksum OK: asettamiset/122390_OPM_paatos_20.05.2008_12-02-42.pdf
13 Checksum OK: asettamiset/128343_Vihanta.pdf
14 ...
15 ...
16 </premis:eventOutcomeDetailNote>
17   </premis:eventOutcomeDetail>
18 </premis:eventOutcomeInformation>
19 <premis:linkingAgentIdentifier>
20   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
21   <premis:linkingAgentIdentifierValue>preservation-agent-check_checksums.py-v0.0-ab97604a-21c2-48aa-bd5e-60f38944ba65</premis:linkingAgentIdentifierValue>
22 </premis:linkingAgentIdentifier>
23 <premis:linkingObjectIdentifier>
24   <premis:linkingObjectIdentifierType>preservation-sip-id</premis:linkingObjectIdentifierType>
25   <premis:linkingObjectIdentifierValue>a540fe49-cfd9-4ea4-afe9-056fad93f447</premis:linkingObjectIdentifierValue>
26 </premis:linkingObjectIdentifier>
27 </premis:event>
```

# Digitaalisen objektin validoinnin tulokset 1/4

Vastaavia premis-tapahtumia toistuu niin monta kuin paketissa on digitaalisia objekteja

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>e778f336-20ad-4504-adf1-6b83709c9821</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:49:39.260687</premis:eventDateTime>
8   <premis:eventDetail>Digital object validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
```

# Digitaalisen objektin validoinnin tulokset 1/4

Vastaavia premis-tapahtumia toistuu niin monta kuin paketissa on digitaalisia objekteja

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>e778f336-20ad-4504-adf1-6b83709c9821</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:49:39.260687</premis:eventDateTime>
8   <premis:eventDetail>Digital object validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
```

# Digitaalisen objektin validoinnin tulokset 2/4

```
<premis:eventOutcomeDetail>
  <premis:eventOutcomeDetailNote>[VerapdfDetector] PDF/A version detected by veraPDF.
[GhostscriptScraper] GPL Ghostscript 9.25 (2018-09-13)
Copyright (C) 2018 Artifex Software, Inc. All rights reserved.
This software comes with NO WARRANTY: see the file PUBLIC for details.
Processing pages 1 through 7.
Page 1
Page 2
Page 3
Page 4
Page 5
Page 6
Page 7

[GhostscriptScraper] Well-Formed and valid
[JHovePdfScraper] Well-Formed and valid
[JHovePdfScraper] PDF root version is 1.4
[MagicBinaryScraper] The file was analyzed successfully.
[VerapdfScraper] See eventOutcomeDetailExtension for details.
[ResultsMergeScraper] Scraper results merged into streams
[MimeMatchScraper] MIME type and file format version checked.
[MetadataComparator] METS metadata matches scraper metadata.</premis:eventOutcomeDetailNote>
```

# Digitaalisen objektin validoinnin tulokset (veraPDF) 3/4

```
1 <premis:eventOutcomeDetailExtension>
2 <report>
3 <buildInformation>
4 <releaseDetails id="core" version="1.20.2" buildDate="2022-05-19T08:23:00+03:00"/>
5 <releaseDetails id="validation-model" version="1.20.2" buildDate="2022-05-19T08:27:00+03:00"/>
6 <releaseDetails id="gui" version="1.20.3" buildDate="2022-05-19T09:10:00+03:00"/>
7 </buildInformation>
8 <jobs>
9 <job>
10 <item size="286369">
11 <name>/var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac
12 122390_OPM_paatos_20.05.2008_12-02-42.pdf</name>
13 </item>
14 <validationReport profileName="PDF/A-1A validation profile" statement="PDF file is compliant with
15 Validation Profile requirements." isCompliant="true">
16 <details passedRules="106" failedRules="0" passedChecks="47733" failedChecks="0"/>
17 </validationReport>
18 <duration start="1678956568947" finish="1678956579098">00:00:10.151</duration>
19 </job>
20 </jobs>
21 <batchSummary totalJobs="1" failedToParse="0" encrypted="0" outOfMemory="0" veraExceptions="0">
22 <validationReports compliant="1" nonCompliant="0" failedJobs="0">1</validationReports>
23 <featureReports failedJobs="0">0</featureReports>
24 <repairReports failedJobs="0">0</repairReports>
25 <duration start="1678956568338" finish="1678956579152">00:00:10.814</duration>
26 </batchSummary>
27 </report>
28 </premis:eventOutcomeDetailExtension>
29 </premis:eventOutcomeDetail>
30 </premis:eventOutcomeInformation>
```



# Digitaalisen objektin validoinnin tulokset (veraPDF) 3/4

```
1 <premis:eventOutcomeDetailExtension>
2 <report>
3 <buildInformation>
4 <releaseDetails id="core" version="1.20.2" buildDate="2022-05-19T08:23:00+03:00"/>
5 <releaseDetails id="validation-model" version="1.20.2" buildDate="2022-05-19T08:27:00+03:00"/>
6 <releaseDetails id="gui" version="1.20.3" buildDate="2022-05-19T09:10:00+03:00"/>
7 </buildInformation>
8 <jobs>
9 <job>
10 <item size="286369">
11 <name>/var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac
12 122390_OPM_paatos_20.05.2008_12-02-42.pdf</name>
13 </item>
14 <validationReport profileName="PDF/A-1A validation profile" statement="PDF file is compliant with
15 Validation Profile requirements." isCompliant="true">
16 <details passedRules="106" failedRules="0" passedChecks="47733" failedChecks="0"/>
17 </validationReport>
18 <duration start="1678956568947" finish="1678956579098">00:00:10.151</duration>
19 </job>
20 </jobs>
21 <batchSummary totalJobs="1" failedToParse="0" encrypted="0" outOfMemory="0" veraExceptions="0">
22 <validationReports compliant="1" nonCompliant="0" failedJobs="0">1</validationReports>
23 <featureReports failedJobs="0">0</featureReports>
24 <repairReports failedJobs="0">0</repairReports>
25 <duration start="1678956568338" finish="1678956579152">00:00:10.814</duration>
26 </batchSummary>
27 </report>
28 </premis:eventOutcomeDetailExtension>
29 </premis:eventOutcomeDetail>
30 </premis:eventOutcomeInformation>
```

# Digitaalisen objektin validoinnin tulokset (veraPDF) 4/4

## Täydellisyyden vuoksi myös eventin loppuosa

```
1 <premis:linkingAgentIdentifier>
2   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
3   <premis:linkingAgentIdentifierValue>preservation-agent-check_sip_digital_objects.py-v0.0-e5e3f150-96ef-46bf-a6ea-28d841ae9f0
4 </premis:linkingAgentIdentifier>
5 <premis:linkingObjectIdentifier>
6   <premis:linkingObjectIdentifierType>preservation-object-id</premis:linkingObjectIdentifierType>
7   <premis:linkingObjectIdentifierValue>63371913-24ad-4180-a889-6dd207db66d3</premis:linkingObjectIdentifierValue>
8 </premis:linkingObjectIdentifier>
9 </premis:event>
```

# Säilytyssopimuksen tarkistaminen

Järjestelmä tarkistaa onko organisaatiolla oikeus viedä paketteja säilytykseen – tässä vain osittainen event

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>ad90cbbf-5e9d-46bb-9f6e-c2525dc850b0</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:46.617405</premis:eventDateTime>
8   <premis:eventDetail>Validation of service contract properties</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Validation of the DP service contract properties was successful.
13 The user organisaatio1 has ingest permissions for the contract with the identifier value
14 urn:uuid:89e92a4f-f0e4-4768-b785-4781d3299b20.</premis:eventOutcomeDetailNote>
15    </premis:eventOutcomeDetail>
```

# Säilytyssopimuksen tarkistaminen

Järjestelmä tarkistaa onko organisaatiolla oikeus viedä paketteja säilytykseen – tässä vain osittainen event

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>ad90cbbf-5e9d-46bb-9f6e-c2525dc850b0</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:46.617405</premis:eventDateTime>
8   <premis:eventDetail>Validation of service contract properties</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Validation of the DP service contract properties was successful.
13 The user organisaatio1 has ingest permissions for the contract with the identifier value
14 urn:uuid:89e92a4f-f0e4-4768-b785-4781d3299b20.</premis:eventOutcomeDetailNote>
15    </premis:eventOutcomeDetail>

```

# Virustarkistus 1/2

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>ab38a363-d85e-4075-a9fa-eb81be123a5a</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>virus check</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:46.410545</premis:eventDateTime>
8   <premis:eventDetail>Virus check of transferred files</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
```

# Virustarkistus 1/2

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>ab38a363-d85e-4075-a9fa-eb81be123a5a</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>virus check</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:46.410545</premis:eventDateTime>
8   <premis:eventDetail>Virus check of transferred files</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
```

# Virustarkistus 2/2

```
1      <premis:eventOutcomeDetailNote>--- BATCH # 0 ---
2
3      [[Truncated 14 filenames with no detected viruses]]
4  COMMAND: ['clamscan', '-f', 'virus-scan-job-batch-target-0.txt']
5  CWD: /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef
6  RETURNCODE: 0
7  STDOUT:
8  /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d
9  /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d
10
11  ----- SCAN SUMMARY -----
12  Known viruses: 2010568
13  Engine version: 0.103.8
14  Scanned directories: 0
15  Scanned files: 16
16  Infected files: 0
17  Data scanned: 12.04 MB
18  Data read: 2.80 MB (ratio 4.30:1)
19  Time: 22.312 sec (0 m 22 s)
20  Start Date: 2023:03:16 10:48:24
21  End Date: 2023:03:16 10:48:46
22
23  STDERR:
24
25  NO INFECTIONS FOUND DURING BATCH SCAN</premis:eventOutcomeDetailNote>
26      </premis:eventOutcomeDetail>
27  </premis:eventOutcomeInformation>
```

# Virustarkistus 2/2

```
1      <premis:eventOutcomeDetailNote>--- BATCH # 0 ---
2
3      [[Truncated 14 filenames with no detected viruses]]
4  COMMAND: ['clamscan', '-f', 'virus-scan-job-batch-target-0.txt']
5  CWD: /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef
6  RETURNCODE: 0
7  STDOUT:
8  /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d
9  /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d
10
11  ----- SCAN SUMMARY -----
12  Known viruses: 2010568
13  Engine version: 0.103.8
14  Scanned directories: 0
15  Scanned files: 16
16  Infected files: 0
17  Data scanned: 12.04 MB
18  Data read: 2.80 MB (ratio 4.30:1)
19  Time: 22.312 sec (0 m 22 s)
20  Start Date: 2023:03:16 10:48:24
21  End Date: 2023:03:16 10:48:46
22
23  STDERR:
24
25  NO INFECTIONS FOUND DURING BATCH SCAN</premis:eventOutcomeDetailNote>
26      </premis:eventOutcomeDetail>
27      </premis:eventOutcomeInformation>
```



# Virustarkistus 2/2

```
1      <premis:eventOutcomeDetailNote>--- BATCH # 0 ---
2
3      [[Truncated 14 filenames with no detected viruses]]
4  COMMAND: ['clamscan', '-f', 'virus-scan-job-batch-target-0.txt']
5  CWD: /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef
6  RETURNCODE: 0
7  STDOUT:
8  /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d
9  /var/spool/preservation/local/ingest/organisaatio1/csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d
10
11  ----- SCAN SUMMARY -----
12  Known viruses: 2010568
13  Engine version: 0.103.8
14  Scanned directories: 0
15  Scanned files: 16
16  Infected files: 0
17  Data scanned: 12.04 MB
18  Data read: 2.80 MB (ratio 4.30:1)
19  Time: 22.312 sec (0 m 22 s)
20  Start Date: 2023:03:16 10:48:24
21  End Date: 2023:03:16 10:48:46
22
23  STDERR:
24
25  NO INFECTIONS FOUND DURING BATCH SCAN</premis:eventOutcomeDetailNote>
26      </premis:eventOutcomeDetail>
27  </premis:eventOutcomeInformation>
```

# SIPin siirto vastaanottoon -tapahtuma

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>15039946-6805-4405-8d09-88f3f4d13bf0</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>transfer</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:39:56.215329</premis:eventDateTime>
8   <premis:eventDetail>Transfer of submission information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Submission information package transferred to the digital preservation service</premis:even
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-user-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-user-organisaatio1</premis:linkingAgentIdentifierValue>
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-sip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>a540fe49-cfd9-4ea4-afe9-056fad93f447</premis:linkingObjectIdentifierValue>
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```

# SIPin siirto vastaanottoon -tapahtuma

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>15039946-6805-4405-8d09-88f3f4d13bf0</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>transfer</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:39:56.215329</premis:eventDateTime>
8   <premis:eventDetail>Transfer of submission information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Submission information package transferred to the digital preservation service</premis:ev
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-user-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-user-organisaatio1</premis:linkingAgentIdentifierValue>
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-sip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>a540fe49-cfd9-4ea4-afe9-056fad93f447</premis:linkingObjectIdentifierValue>
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```

# SIPin siirto vastaanottoon -tapahtuma

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>15039946-6805-4405-8d09-88f3f4d13bf0</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>transfer</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:39:56.215329</premis:eventDateTime>
8   <premis:eventDetail>Transfer of submission information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Submission information package transferred to the digital preservation service</premis:ev
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-user-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-user-organisaatio1</premis:linkingAgentIdentifierValue>
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-sip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>a540fe49-cfd9-4ea4-afe9-056fad93f447</premis:linkingObjectIdentifierValue>
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```

# Säilytysvastuun siirtyminen -tapahtuma

- Näitä tapahtumia on kaksi kappaletta, tyypiltään "accession" ja "preservation responsibility change". Suosittelemme käyttämään "accession"-tapahtumaa, kun luette raporttia.
- Tämä on yksi tärkeimmistä premis-tapahtumista vastaanottoraportissa. Tämä osoittaa, että säilytysvastuu lähetetystä aineistosta on siirtynyt PAS-järjestelmälle. Jos tämä tapahtuma puuttuu, siirtopaketti on ollut jotenkin viallinen – tai jotain muuta on mennyt vastaanotossa pieleen.

# Säilytysvastuun siirtyminen

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>79202a97-9645-4f47-a789-4afa5ca4f474</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>accession</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:55:51.222314</premis:eventDateTime>
8   <premis:eventDetail>Preservation responsibility change to the digital preservation service</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>All events completed successfully</premis:eventOutcomeDetailNote>
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-agent-create_premis_report.py-v0.0-591938b6-299d-46b4-982c-2a97b7b8e6d5</premis:linkingAgentIdentifierValue>
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-aip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```

# Säilytysvastuun siirtyminen

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>79202a97-9645-4f47-a789-4afa5ca4f474</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>accession</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:55:51.222314</premis:eventDateTime>
8   <premis:eventDetail>Preservation responsibility change to the digital preservation service</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>All events completed successfully</premis:eventOutcomeDetailNote>
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-agent-create_premis_report.py-v0.0-591938b6-299d-46b4-982c-2a97b7b8e6d5</premis:linkingAgentIdentifierValue>
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-aip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```

# Viimeinen tapahtuma - AIPin luominen

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>7440fa21-7614-452a-ac26-480de12b6fcf</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>information package creation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:23.895725</premis:eventDateTime>
8   <premis:eventDetail>Creation of archival information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Archival information package created succesfully</premis:eventOutcomeDetailNote>
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-agent-create_aip.py-v0.0-a8f1b241-c857-4056-a503-1511d4568b28</premis:link
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-aip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```



# Viimeinen tapahtuma - AIPin luominen

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>7440fa21-7614-452a-ac26-480de12b6fcf</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>information package creation</premis:eventType>
7   <premis:eventDateTime>2023-03-16T10:48:23.895725</premis:eventDateTime>
8   <premis:eventDetail>Creation of archival information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>success</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Archival information package created succesfully</premis:eventOutcomeDetailNote>
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-agent-create_aip.py-v0.0-a8f1b241-c857-4056-a503-1511d4568b28</premis:link
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-aip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>csc_test_valid_sip_multiple_digital_objects-0d2ab19e-0ac4-43da-b8e5-4ef1566d8781.zip-e
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```

# Premis-agentit

- Agentit ovat ohjelmia, jotka ovat käsitelleet aineistoa vastaanoton aikana. Niitä on tyypillisesti noin 10 kappaletta.
- Käytännössä agenttien merkitys raportissa on hyödyntävälle organisaatiolle pieni.
- Tässä esimerkkinä viimeinen agentti, jonka jälkeen tulee dokumentin sulkeva XML-elementti.

```
1 <premis:agent>
2   <premis:agentIdentifier>
3     <premis:agentIdentifierType>preservation-agent-id</premis:agentIdentifierType>
4     <premis:agentIdentifierValue>preservation-agent-create_aip.py-v0.0-a8f1b241-c857-4056-a503-1511d4568b28</premis:agentIdent
5   </premis:agentIdentifier>
6   <premis:agentName>create_aip.py-v0.0</premis:agentName>
7   <premis:agentType>software</premis:agentType>
8 </premis:agent>
9 </premis:premis>
```

# Premis-agentit

- Agentit ovat ohjelmia, jotka ovat käsitelleet aineistoa vastaanoton aikana. Niitä on tyypillisesti noin 10 kappaletta.
- Käytännössä agenttien merkitys raportissa on hyödyntävälle organisaatiolle pieni.
- Tässä esimerkkinä viimeinen agentti, jonka jälkeen tulee dokumentin sulkeva XML-elementti.

```
1 <premis:agent>
2   <premis:agentIdentifier>
3     <premis:agentIdentifierType>preservation-agent-id</premis:agentIdentifierType>
4     <premis:agentIdentifierValue>preservation-agent-create_aip.py-v0.0-a8f1b241-c857-4056-a503-1511d4568b28</premis:agentIdent
5   </premis:agentIdentifier>
6   <premis:agentName>create_aip.py-v0.0</premis:agentName>
7   <premis:agentType>software</premis:agentType>
8 </premis:agent>
9 </premis:premis>
```

# Tyypillisiä virhetilanteita ja niiden tulkintaa

- Jos luette itse vastaanottoraportteja, helpoin tapa löytää virheet on etsiä sanaa "failure". Jos löytyy eventOutcome-elementti, joka on "failure", paketti on hylätty.
- Erityistä huomiota kannattaa kiinnittää validation-tapahtumaan, jonka eventDetail on Validation compilation of submission information package. Tämä elementti sisältää validoinnin yhteenvedon tuloksen.

# Esimerkki 1 (1/2)

- Paketti on duplikaatti, eli mets:objid on sama kuin jo säilytyksessä olevalla paketilla
- Tässä tapahtuma, missä näkyy ongelman varsinainen syy

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>c45b9a43-7297-4f3f-b0d6-d09c70b8da69</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-02-15T14:14:18.559893</premis:eventDateTime>
8   <premis:eventDetail>Additional METS validation of required features</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>failure</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Validation of DP mets version properties failed.
13      The submission information package is a duplicate.</premis:eventOutcomeDetailNote>
14    </premis:eventOutcomeDetail>
15  </premis:eventOutcomeInformation>
16  <premis:linkingAgentIdentifier>
17    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
18    <premis:linkingAgentIdentifierValue>preservation-agent-sip_version.py-v0.0-66e75b32-9263-4bf6-9cf4-0bd6ef177fed</premis:linkingAgentIdentifierValue>
19  </premis:linkingAgentIdentifier>
20  <premis:linkingObjectIdentifier>
21    <premis:linkingObjectIdentifierType>preservation-mets-id</premis:linkingObjectIdentifierType>
22    <premis:linkingObjectIdentifierValue>0c437ef7-e32d-4298-b736-243c61323c27</premis:linkingObjectIdentifierValue>
23  </premis:linkingObjectIdentifier>
24 </premis:event>
```

# Esimerkki 1 (1/2)

- Paketti on duplikaatti, eli mets:objid on sama kuin jo säilytyksessä olevalla paketilla
- Tässä tapahtuma, missä näkyy ongelman varsinainen syy

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>c45b9a43-7297-4f3f-b0d6-d09c70b8da69</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-02-15T14:14:18.559893</premis:eventDateTime>
8   <premis:eventDetail>Additional METS validation of required features</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>failure</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Validation of DP mets version properties failed.
13      The submission information package is a duplicate.</premis:eventOutcomeDetailNote>
14    </premis:eventOutcomeDetail>
15  </premis:eventOutcomeInformation>
16  <premis:linkingAgentIdentifier>
17    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
18    <premis:linkingAgentIdentifierValue>preservation-agent-sip_version.py-v0.0-66e75b32-9263-4bf6-9cf4-0bd6ef177fed</premis:linkingAgentIdentifierValue>
19  </premis:linkingAgentIdentifier>
20  <premis:linkingObjectIdentifier>
21    <premis:linkingObjectIdentifierType>preservation-mets-id</premis:linkingObjectIdentifierType>
22    <premis:linkingObjectIdentifierValue>0c437ef7-e32d-4298-b736-243c61323c27</premis:linkingObjectIdentifierValue>
23  </premis:linkingObjectIdentifier>
24 </premis:event>
```

# Esimerkki 1 (2/2)

- Tässä validation compilation -tapahtuma eli yhteenveto

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>9b94fac9-e74d-4aec-aa2b-6e32964a9225</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-02-15T14:16:07.086745</premis:eventDateTime>
8   <premis:eventDetail>Validation compilation of submission information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>failure</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Failed event: Additional METS validation of required features</premis:eventOutcomeDetailNo
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-agent-create_premis_report.py-v0.0-ca2a955d-a262-4e66-bf7a-a1f863027690</p
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-sip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>729d3552-4546-4fbe-95ca-30300858688f</premis:linkingObjectIdentifierValue>
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```

# Esimerkki 1 (2/2)

- Tässä validation compilation -tapahtuma eli yhteenveto

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>9b94fac9-e74d-4aec-aa2b-6e32964a9225</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-02-15T14:16:07.086745</premis:eventDateTime>
8   <premis:eventDetail>Validation compilation of submission information package</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>failure</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Failed event: Additional METS validation of required features</premis:eventOutcomeDetailNote>
13    </premis:eventOutcomeDetail>
14  </premis:eventOutcomeInformation>
15  <premis:linkingAgentIdentifier>
16    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
17    <premis:linkingAgentIdentifierValue>preservation-agent-create_premis_report.py-v0.0-ca2a955d-a262-4e66-bf7a-a1f863027690</premis:linkingAgentIdentifierValue>
18  </premis:linkingAgentIdentifier>
19  <premis:linkingObjectIdentifier>
20    <premis:linkingObjectIdentifierType>preservation-sip-id</premis:linkingObjectIdentifierType>
21    <premis:linkingObjectIdentifierValue>729d3552-4546-4fbe-95ca-30300858688f</premis:linkingObjectIdentifierValue>
22  </premis:linkingObjectIdentifier>
23 </premis:event>
```



# Esimerkki 2 (1/2)

- Mets.xml-tiedoston Schema- tai Schematron-tarkistus epäonnistuu
- Jos näin käy etkä löydä mets.xml:ssä olevaa virhettä helposti, lähetä mets.xml meille.

# Esimerkki 2 (2/2)

```
<premis:event>
  <premis:eventIdentifier>
    <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
    <premis:eventIdentifierValue>ec9d1ba7-0b05-4cb2-95a0-4f79d92a82f9</premis:eventIdentifierValue>
  </premis:eventIdentifier>
  <premis:eventType>validation</premis:eventType>
  <premis:eventDateTime>2023-04-20T13:33:50.773034</premis:eventDateTime>
  <premis:eventDetail>METS schema validation</premis:eventDetail>
  <premis:eventOutcomeInformation>
    <premis:eventOutcome>failure</premis:eventOutcome>
    <premis:eventOutcomeDetail>
      <premis:eventOutcomeDetailNote>COMMAND: ['check-xml-schema-features-3', 'paketinnimi.tar/mets.xml']
    </premis:eventOutcomeDetailNote>
  </premis:eventOutcomeDetail>
  </premis:eventOutcomeInformation>
  <premis:linkingAgentIdentifier>
    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
    <premis:linkingAgentIdentifierValue>preservation-agent-validate_mets_schema.py-v0.0-44e9fedf-e09d-4fda-bec5-6d48c931ea4c</premis:linkingAgentIdentifierValue>
  </premis:linkingAgentIdentifier>
  <premis:linkingObjectIdentifier>
    <premis:linkingObjectIdentifierType>preservation-mets-id</premis:linkingObjectIdentifierType>
    <premis:linkingObjectIdentifierValue>7664d6a1-9fcc-47aa-9dd1-c348b240f944</premis:linkingObjectIdentifierValue>
  </premis:linkingObjectIdentifier>
</premis:event>
```

CWD: None  
[PredefinedDetector] User-supplied file format used  
STDOUT:  
[PredefinedDetector] User-supplied file format used  
[LxmlScrapper] Encoding metadata found.  
[MagicTextScrapper] The file was analyzed successfully.  
[TextEncodingScrapper] Character encoding validated successfully.  
[ResultsMergeScrapper] Scrapper results merged into streams  
[JHoveUtf8Scrapper] Well-Formed and valid  
[MimeMatchScrapper] MIME type and file format version checked.

STDERR:  
[XmlLintScrapper] ERROR: paketinnimi.tar/mets.xml:10001: element eventDateTime: Schemas validity error : Element '{info:lc/xmlns/premis-v2}eventDateTime': 'NULL' is not a valid value of the union type '{info:lc/xmlns/premis-v2}edtfsimpleType'.  
[XmlLintScrapper] ERROR: paketinnimi.tar/mets.xml fails to validate

# Esimerkki 3 (1/2)

- Digitaalinen objekti ei ole validi.
- Tässä on helpohko virhetilanne: CSV-tiedostosta on löytynyt merkki `\x02`, mikä tarkoittaa ASCII-kontrollimerkkiä STX eli Start of Text. Emme hyväksy näitä kontrollimerkkejä CSV-tiedostoissa.

# Esimerkki 3 (2/2)

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>f0120c09-1c60-4159-b354-4e6ebb14aa65</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-02-20T16:05:25.823714</premis:eventDateTime>
8   <premis:eventDetail>Digital object validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>failure</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Detected mimetype: text/plain, version: None
13 METS mimetype: text/csv
14 Validating as mimetype: text/csv
15 [PredefinedDetector] User-supplied file format used
16 [CsvScraper] CSV file was checked successfully.
17 [MagicTextScraper] The file was analyzed successfully.
18 [ResultsMergeScraper] Scraper results merged into streams
19 [JHoveUtf8Scraper] Well-Formed and valid
20 [MimeMatchScraper] MIME type and file format version checked.
21 [TextEncodingScraper] ERROR: Character decoding error: Illegal character '\x02' in position 1000000</premis:eventOutcomeDetailN
22    </premis:eventOutcomeDetail>
23  </premis:eventOutcomeInformation>
24  <premis:linkingAgentIdentifier>
25    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
26    <premis:linkingAgentIdentifierValue>preservation-agent-check_sip_digital_objects.py-v0.0-b830357b-97fd-403b-abaa-283d4a8b
27  </premis:linkingAgentIdentifier>
28  <premis:linkingObjectIdentifier>
29    <premis:linkingObjectIdentifierType>preservation-object-id</premis:linkingObjectIdentifierType>
30    <premis:linkingObjectIdentifierValue>0d26dcbf-7fe7-464f-8db2-f4908c7b6a66</premis:linkingObjectIdentifierValue>
31  </premis:linkingObjectIdentifier>
32 </premis:event>
33 </premis:event>
```

# Esimerkki 3 (2/2)

```
1 <premis:event>
2   <premis:eventIdentifier>
3     <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
4     <premis:eventIdentifierValue>f0120c09-1c60-4159-b354-4e6ebb14aa65</premis:eventIdentifierValue>
5   </premis:eventIdentifier>
6   <premis:eventType>validation</premis:eventType>
7   <premis:eventDateTime>2023-02-20T16:05:25.823714</premis:eventDateTime>
8   <premis:eventDetail>Digital object validation</premis:eventDetail>
9   <premis:eventOutcomeInformation>
10    <premis:eventOutcome>failure</premis:eventOutcome>
11    <premis:eventOutcomeDetail>
12      <premis:eventOutcomeDetailNote>Detected mimetype: text/plain, version: None
13 METS mimetype: text/csv
14 Validating as mimetype: text/csv
15 [PredefinedDetector] User-supplied file format used
16 [CsvScraper] CSV file was checked successfully.
17 [MagicTextScraper] The file was analyzed successfully.
18 [ResultsMergeScraper] Scraper results merged into streams
19 [JHoveUtf8Scraper] Well-Formed and valid
20 [MimeMatchScraper] MIME type and file format version checked.
21 [TextEncodingScraper] ERROR: Character decoding error: Illegal character '\x02' in position 1000000</premis:eventOutcomeDetailN
22    </premis:eventOutcomeDetail>
23  </premis:eventOutcomeInformation>
24  <premis:linkingAgentIdentifier>
25    <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
26    <premis:linkingAgentIdentifierValue>preservation-agent-check_sip_digital_objects.py-v0.0-b830357b-97fd-403b-abaa-283d4a8b
27  </premis:linkingAgentIdentifier>
28  <premis:linkingObjectIdentifier>
29    <premis:linkingObjectIdentifierType>preservation-object-id</premis:linkingObjectIdentifierType>
30    <premis:linkingObjectIdentifierValue>0d26dcbf-7fe7-464f-8db2-f4908c7b6a66</premis:linkingObjectIdentifierValue>
31  </premis:linkingObjectIdentifier>
32 </premis:event>
33 </premis:event>
```

# Esimerkki 4 (1/3)

- Digitaalinen objekti (PDF-tiedosto) ei ole validi.
- Seuraavalla kalvolla vain alkuosa tapahtumasta.
- Meihin voi ottaa yhteyttä, jos tällaisessa tapauksessa tarvitsee apua.

# Esimerkki 4 (2/3)

```
<premis:event>
  <premis:eventIdentifier>
    <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
    <premis:eventIdentifierValue>8679a415-9c55-4b5a-b6bb-280063db9132</premis:eventIdentifierValue>
  </premis:eventIdentifier>
  <premis:eventType>validation</premis:eventType>
  <premis:eventDateTime>2021-10-29T12:35:35.869335</premis:eventDateTime>
  <premis:eventDetail>Digital object validation</premis:eventDetail>
  <premis:eventOutcomeInformation>
    <premis:eventOutcome>failure</premis:eventOutcome>
    <premis:eventOutcomeDetail>
      <premis:eventOutcomeDetailNote>Detected mimetype: application/pdf, version: 1.7
METS mimetype: application/pdf, version: A-3a
Validating as mimetype: application/pdf, version: A-3a
[PredefinedDetector] User-supplied file format used
[VerapdfDetector] File is not PDF/A, it is not compliant with PDF/A requirements
[GhostscriptScraper] GPL Ghostscript 9.25 (2018-09-13)
Copyright (C) 2018 Artifex Software, Inc. All rights reserved.
This software comes with NO WARRANTY: see the file PUBLIC for details.
Processing pages 1 through 100.
Page 1
...

[GhostscriptScraper] Well-Formed and valid
[MagicBinaryScraper] The file was analyzed successfully.
[ResultsMergeScraper] Scraper results merged into streams
[MimeMatchScraper] MIME type and file format version checked.
[VerapdfScraper] ERROR: MIME type (:unav) with version (:unav) is not supported.
[VerapdfScraper] ERROR: See eventOutcomeDetailExtension for details.
[MimeMatchScraper] ERROR: Predefined version 'A-3a' and resulted version '1.7' mismatch.</premis:eventOutcomeDetailNote>
```

# Esimerkki 4 (3/3)

```
<premis:eventOutcomeDetailExtension>
  <report>
    <buildInformation>
      <releaseDetails id="core" version="1.16.1" buildDate="2020-05-12T00:43:00+03:00"/>
      <releaseDetails id="validation-model" version="1.16.1" buildDate="2020-05-12T00:46:00+03:00"/>
      <releaseDetails id="gui" version="1.16.1" buildDate="2020-05-12T00:59:00+03:00"/>
    </buildInformation>
    <jobs>
      <job>
        <item size="123456">
          <name>tiedostonimi.pdf</name>
          </item>
          <validationReport profileName="PDF/A-1B validation profile" statement="PDF file is not compliant with
Validation Profile requirements." isCompliant="false">
            <details passedRules="98" failedRules="5" passedChecks="334041" failedChecks="137">
```



# Kuinka löydän epävalidin tiedoston?

- Kuten edellä todettu, hyvä tapa löytää virheitä on etsiä raportista sanaa `failure`
- Validointitapahtumaan ei välttämättä ole kirjattu tiedoston nimeä
- Kuinka löytää epäonnistuneen validoinnin tapahtuman perusteella tiedoston tiedot?

# Haetaan raportti PAS-järjestelmästä

Raportti löytyy polusta

```
rejected/2023-04-25/  
csc_test_invalid_digital_object-487e21ee-bebe-488a-b6dd-4edd9c9663b2.zip/  
csc_test_invalid_digital_object-487e21ee-bebe-488a-b6dd-4edd9c9663b2.zip-13581694-cebd-4d4e-8c4e-8e3cbf7e3a55-ingest-report.xml
```

# Haetaan raportista sanaa failure

Saadaan tällainen tulos:

```
<premis:event>
  <premis:eventIdentifier>
    <premis:eventIdentifierType>preservation-event-id</premis:eventIdentifierType>
    <premis:eventIdentifierValue>89f266ec-f3af-42f1-acaf-a7088a8c3bbd</premis:eventIdentifierValue>
  </premis:eventIdentifier>
  <premis:eventType>validation</premis:eventType>
  <premis:eventDateTime>2023-03-16T10:51:17.913042</premis:eventDateTime>
  <premis:eventDetail>Digital object validation</premis:eventDetail>
  <premis:eventOutcomeInformation>
    <premis:eventOutcome>failure</premis:eventOutcome>
    <premis:eventOutcomeDetail>
      <premis:eventOutcomeDetailNote>Detected mimetype: application/octet-stream, version: None
METS mimetype: application/pdf, version: A-1b
Validating as mimetype: application/pdf, version: A-1b
[PredefinedDetector] User-supplied file format used
[VerapdfDetector] File is not PDF/A, it is not compliant with PDF/A requirements
[GhostscriptScraper] GPL Ghostscript 9.25 (2018-09-13)
Copyright (C) 2018 Artifex Software, Inc. All rights reserved.
This software comes with NO WARRANTY: see the file PUBLIC for details.
**** Error: An error occurred while reading an XREF table.
**** The file has been damaged. This may have been caused
**** by a problem while converting or transferring the file.
```

\*\*\*\* This file had errors that were repaired or ignored.  
\*\*\*\* Please notify the author of the software that produced this  
\*\*\*\* file that it does not conform to Adobe's published PDF  
\*\*\*\* specification.

\*\*\*\* The rendered output from this file may be incorrect.

```
[JHovePdfScraper] Not well-formed
[JHovePdfScraper] PDF root version is (:unav)
[MagicBinaryScraper] The file was analyzed successfully.
[ResultsMergeScraper] Scraper results merged into streams
[MimeMatchScraper] MIME type and file format version checked.
[VerapdfDetector] ERROR: Mar 16, 2023 10:50:59 AM org.verapdf.processor.ProcessorImpl process
WARNING: /var/spool/preservation/local/ingest/organisaatio1/csc_test_invalid_digital_object-487e21ee-bebe-488a-b6dd-4edd9c9663b2.z
csc_test_invalid_digital_object/KDK_paatosseminarin_ohjelma_10_12_2013.pdf doesn't appear to be a valid PDF.
```

```
[GhostscriptScraper] ERROR: **** Warning: File has some garbage before %PDF- .
warning: ignoring zlib error: incorrect data check
**** The file was produced by:
**** >>> GPL Ghostscript 9.10 <<<<
```

```
[JHovePdfScraper] ERROR: Validator returned error.
[JHovePdfScraper] ERROR:
[JHovePdfScraper] ERROR: See eventOutcomeDetailExtension for details.
[MagicBinaryScraper] ERROR: MIME type (:unav) with version (:unav) is not supported.
[VerapdfScraper] ERROR: Mar 16, 2023 10:51:15 AM org.verapdf.processor.ProcessorImpl process
WARNING: /var/spool/preservation/local/ingest/organisaatio1/csc_test_invalid_digital_object-487e21ee-bebe-488a-b6dd-4edd9c9663b2.z
csc_test_invalid_digital_object/KDK_paatosseminarin_ohjelma_10_12_2013.pdf doesn't appear to be a valid PDF.
```

```
[VerapdfScraper] ERROR: MIME type (:unav) with version (:unav) is not supported.
[VerapdfScraper] ERROR: See eventOutcomeDetailExtension for details.
[MimeMatchScraper] ERROR: File format version is not supported.
ERROR: File KDK_paatosseminarin_ohjelma_10_12_2013.pdf with the given file format application/pdf is
unacceptable for digital preservation.</premis:eventOutcomeDetailNote>
```

# object-id:n löytäminen

Hypätään `eventOutcomeDetailExtension`-elementin yli ja katsotaan eventin loppuosaa.

```
1 <premis:linkingAgentIdentifier>
2   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
3   <premis:linkingAgentIdentifierValue>preservation-agent-check_sip_digital_objects.py-v0.0-b4fc0f5e-0c38-4547-9c8f-04096c46ebb0<
4 </premis:linkingAgentIdentifier>
5 <premis:linkingObjectIdentifier>
6   <premis:linkingObjectIdentifierType>preservation-object-id</premis:linkingObjectIdentifierType>
7   <premis:linkingObjectIdentifierValue>a41a929d-d008-47a8-8ce9-812a3f5535c1</premis:linkingObjectIdentifierValue>
8 </premis:linkingObjectIdentifier>
```

Siellä on `preservation-object-id`. Otetaan se talteen ja haetaan sitä raportista.

# object-id:n löytäminen

Hypätään `eventOutcomeDetailExtension`-elementin yli ja katsotaan eventin loppuosaa.

```
1 <premis:linkingAgentIdentifier>
2   <premis:linkingAgentIdentifierType>preservation-agent-id</premis:linkingAgentIdentifierType>
3   <premis:linkingAgentIdentifierValue>preservation-agent-check_sip_digital_objects.py-v0.0-b4fc0f5e-0c38-4547-9c8f-04096c46ebb0<
4 </premis:linkingAgentIdentifier>
5 <premis:linkingObjectIdentifier>
6   <premis:linkingObjectIdentifierType>preservation-object-id</premis:linkingObjectIdentifierType>
7   <premis:linkingObjectIdentifierValue>a41a929d-d008-47a8-8ce9-812a3f5535c1</premis:linkingObjectIdentifierValue>
8 </premis:linkingObjectIdentifier>
```

Siellä on `preservation-object-id`. Otetaan se talteen ja haetaan sitä raportista.

# Premis-objektin löytäminen

Teimme haun object-id:llä

**a41a929d-d008-47a8-8ce9-812a3f5535c1**

object-id:n perusteella löydämme premis-objektin tälle PDF-tiedostolle!

```
<premis:object xsi:type="premis:representation">
  <premis:objectIdentifier>
    <premis:objectIdentifierType>preservation-object-id</premis:objectIdentifierType>
    <premis:objectIdentifierValue>a41a929d-d008-47a8-8ce9-812a3f5535c1</premis:objectIdentifierValue>
  </premis:objectIdentifier>
  <premis:originalName>/var/spool/preservation/local/ingest/organisaatio1/csc_test_invalid_digital_object-487e21ee-bebe-488a-b6dd
d9c9663b2.zip-13581694-cebd-4d4e-8c4e-8e3cbf7e3a55/aips-in-progress/csc_test_invalid_digital_object-
487e21ee-bebe-488a-b6dd-4edd9c9663b2.zip-2842b9bd-0982-4238-a9df-f77524bb114a/data/transfers/csc_test_invalid_digital_object/
KDK_paatosseminaarin_ohjelma_10_12_2013.pdf</premis:originalName>
  <premis:environment>
    <premis:dependency>
      <premis:dependencyIdentifier>
        <premis:dependencyIdentifierType>local</premis:dependencyIdentifierType>
        <premis:dependencyIdentifierValue>kdk-sip-premis-object001</premis:dependencyIdentifierValue>
      </premis:dependencyIdentifier>
    </premis:dependency>
  </premis:environment>
  <premis:relationship>
    <premis:relationshipType>structural</premis:relationshipType>
    <premis:relationshipSubType>is included in</premis:relationshipSubType>
    <premis:relatedObjectIdentification>
      <premis:relatedObjectIdentifierType>preservation-sip-id</premis:relatedObjectIdentifierType>
      <premis:relatedObjectIdentifierValue>13581694-cebd-4d4e-8c4e-8e3cbf7e3a55</premis:relatedObjectIdentifierValue>
    </premis:relatedObjectIdentification>
  </premis:relationship>
</premis:object>
```

