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Sample Plan XML

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Krister Kittelson (<https://autocare.communifire.com/people/krister-kittelson>)



6/23/2020

I've put together a sample plan XML (before doing a full XSD) and wanted to get your feedback on it.

The full thing is below -- note that the secondary node is not complete!

A quick summary of the structure without all the IDs, and with some leaf entries removed:

- Sandpiper (the main root node)
 - PrimaryNode (the primary actor)
 - Controller (the entity in charge of the primary node)
 - Description
 - Contacts (Contact information for individuals in the entity)
 - Links
 - Pools (the primary data pools offered)
 - Pool (1..n)
 - Description
 - Creator (the entity in charge of the pool, may be the same as the controller or not!)
 - Description

- Contacts
- Links
- Slices (the divisions of the pool)
 - Slice (1..n)
 - Description
 - Links
- SecondaryNode (the secondary actor)
 - Controller (the entity in charge of the node)
 - Subscriptions (the slices to which the secondary node will subscribe)

```

<?xml version="1.0" encoding="UTF-8"?>
<Sandpiper>
  <PrimaryNode>
    <Controller>
      <Description>Auto Parts Global</Description>
      <Contacts>
        <Contact type="Primary">
          <Name>Dietrich Schmidt</Name>
          <Company>Auto Parts Global</Company>
          <Email type="Work">dietrich.schmidt@autopartsglobal.com</Email>
          <Phone type="Work">+91 032 323 3232</Phone>
          <Phone type="Mobile">+91 992 932 9923</Phone>
          <Phone type="Fax">+91 032 323 9999</Phone>
          <Address>999 Dorfen Strasse, Frankfurt, DE</Address>
        </Contact>
      </Contacts>
    </Controller>
    <Links>
      <Link id="9856e8f2-2a84-4e5a-ac97-a58dc94bf027" system="Auto Care Branding" keyfield="BrandOwner" key="XXYZ">Auto Parts Global</Link>
      <Link id="3d76ce7e-804a-4f54-9630-da3db3c12501" system="SWIFT" keyfield="BIC" key="APGGDE10311">APG GmbH</Link>
    </Links>
    <Pools>
      <Pool id="6bce41d9-db09-4422-82d1-a2815f4dd5e4">
        <Description>Bob's Auto Parts</Description>
        <Creator>
          <Description>Bob's Auto Parts Inc.</Description>
          <Contacts>
            <Contact type="Primary">
              <Name>Bob Smith</Name>
              <Company>Bob's Auto Parts Inc.</Company>
              <Email type="Work">bobsmith@bobauto.com</Email>
              <Phone type="Work">+1-630-555-1212 x323</Phone>
              <Phone type="Fax">+1-630-555-1213</Phone>
              <Address>1 Auto Avenue, Roselle, IL 60172, USA</Address>
            </Contact>
            <Contact type="Secondary">
              <Name>Michael Smith</Name>
              <Company>Mike's Mapping LLC</Company>
              <Email type="Work">mike@mikemapping.com</Email>
              <Phone type="Work">+1-847-555-1212</Phone>
              <Address>2300 N. Dorian, Suite 101, Chicago, IL 60001, USA</Address>
            </Contact>
          </Contacts>
        </Creator>
        <Links>
          <Link id="9856e8f2-2a84-4e5a-ac97-a58dc94bf027" system="Auto Care Branding" keyfield="Brand" key="XXYY">BAP Inc</Link>

```

```
<Link id="a8460946-2e0c-44ed-ae48-1dd4ba779754" system="Dun and Brads
treet" keyfield="DUNS" key="150483782">BAP Incorporated</Link>
<Link id="d4ccbaeb-e951-4773-b0f2-f28be18e7ed6" system="SWIFT" keyfie
ld="BIC" key="APGGUS10301">BAP</Link>
</Links>
<Slices>
  <Slice id="87446ffb-1bd0-4e19-a28d-ea995fa83939" format="ACES" versio
n="3.0" filename="APG_BAP_Wipers_ACES3_Full_2099-04-15.XML" type="full-file">
    <Description>Wiper Applications</Description>
    <Links>
      <Link id="4bb75b11-754e-4367-937e-ffbeab316018" system="Prima
ry Actor" keyfield="Reference Code" key="123456">Wipers</Link>
      <Link id="1b8c9d6b-96c8-4d9b-a251-c4b3e30d1c11" system="Secon
dary Actor" keyfield="Reference Code" key="LLT">BAP WIPER ARMS AND BLADES</Link>
      <Link id="1539ef2f-af4f-4543-a73c-f0fc16ce449e" system="Auto
Care VCdb" keyfield="Version" key="2099-01-27">2099-01-27 Auto Care VCdb</Link>
      <Link id="4223597c-d71e-48e6-98a8-9e4c3adafd66" system="Auto
Care PCdb" keyfield="Version" key="2099-01-27">2099-01-27 Auto Care PCdb</Link>
      <Link id="693d8717-0c33-4f53-b6b7-912b76002b8f" system="Auto
Care Qdb" keyfield="Version" key="2099-01-27">2099-01-27 Auto Care Qdb</Link>
    </Links>
  </Slice>
  <Slice id="5f22bed5-fc1c-4718-aeeb-c3bf9858a23d" type="aces-apps">
    <Description>Wiper Applications - Apps</Description>
    <Links>
      <Link id="855bfd41-a18d-4e4e-82a8-ca8ba921b8b3" system="Maste
r" keyfield="SliceID" key="87446ffb-1bd0-4e19-a28d-ea995fa83939">Wiper Applications</Link
>
    </Links>
  </Slice>
  <Slice id="793c8717-0c33-4f53-b6b7-912b76002b9e" type="aces-header">
    <Description>Wiper Applications - Header</Description>
    <Links>
      <Link id="995bdd41-a18d-4e4e-42a2-ca8ba921b8b3" system="Maste
r" keyfield="SliceID" key="87446ffb-1bd0-4e19-a28d-ea995fa83939">Wiper Applications</Link
>
    </Links>
  </Slice>
  <Slice id="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0" format="PIES" versio
n="7.1" filename="APG_BAP_Wipers_PIES71_Full_2099-04-15.XML" type="full-file">
    <Description>Wiper Part Information</Description>
    <Links>
      <Link id="4bb75b11-754e-4367-937e-ffbeab316018" system="Prima
ry Actor" keyfield="Reference Code" key="123456">Wipers</Link>
      <Link id="1b8c9d6b-96c8-4d9b-a251-c4b3e30d1c11" system="Secon
dary Actor" keyfield="Reference Code" key="LLT">BAP WIPER ARMS AND BLADES</Link>
      <Link id="4223597c-d71e-48e6-98a8-9e4c3adafd66" system="Auto
Care PCdb" keyfield="Version" key="2099-01-27">2099-01-27 Auto Care PCdb</Link>
      <Link id="693d8717-0c33-4f53-b6b7-912b76002b8f" system="Auto
Care PAdb" keyfield="Version" key="2099-01-27">2099-01-27 Auto Care PAdb</Link>
    </Links>
```

```
</Slice>
<Slice id="06f9f65f-1196-4db3-b7c0-207eae79f17f" type="pies-pricesheet">

    <Description>Wiper Part Information - Price Sheets</Description>
    <Links>
        <Link id="855bfd41-a18d-4e4e-82a8-ca8ba921b8b3" system="Master" keyfield="SliceID" key="87446ffb-1bd0-4e19-a28d-ea995fa83939">Wiper Part Information</Link>
    </Links>
</Slice>
<Slice id="eb7ec8f2-5823-4150-b482-c1c6b36dbd25" type="pies-items">
    <Description>Wiper Part Information - Items</Description>
    <Links>
        <Link id="855bfd41-a18d-4e4e-82a8-ca8ba921b8b3" system="Master" keyfield="SliceID" key="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0">Wiper Part Information</Link>
    </Links>
</Slice>
<Slice id="2d9fbb94-64e2-48ad-a674-38f7cc53aa2d" type="pies-marketcopy">
    <Description>Wiper Part Information - Market Copy</Description>
    <Links>
        <Link id="500a4ce9-e43a-4aa6-811b-fedf08d84cfa" system="Master" keyfield="SliceID" key="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0">Wiper Part Information</Link>
    </Links>
</Slice>
<Slice id="38c29672-a15b-49d0-8f29-fe7bf8ffaaae" type="pies-header">
    <Description>Wiper Part Information - Header</Description>
    <Links>
        <Link id="995bdd41-a18d-4e4e-42a2-ca8ba921b8b3" system="Master" keyfield="SliceID" key="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0">Wiper Part Information</Link>
    </Links>
</Slice>
<Slice id="94d162bf-10ab-4476-a885-1a9663be36b4" format="Archive" version="ZIP" filename="APG_BAP_Wipers_Assets_Full_2099-04-15.zip" type="full-file">
    <Description>Wiper Assets</Description>
    <Links>
        <Link id="d22062a1-cc53-4b22-ab5b-475cf3024ca3" system="Primary Actor" keyfield="Reference Code" key="123456">Wipers</Link>
        <Link id="f0da3c20-0cd6-46fe-8005-92eee14ededf" system="Secondary Actor" keyfield="Reference Code" key="LLT">BAP WIPER ARMS AND BLADES</Link>
        <Link id="a28efd9e-ec60-43ee-8c86-f6b73e4df3d3" system="Auto Care PCdb" keyfield="Version" key="2099-01-27">2099-01-27 Auto Care PCdb</Link>
        <Link id="f347de04-be7f-4214-8d70-fbde410ec572" system="Auto Care PAdb" keyfield="Version" key="2099-01-27">2099-01-27 Auto Care PAdb</Link>
    </Links>
</Slice>
<Slice id="73e5c8ea-4305-44f9-8c7b-13277978c085" type="asset-files">
    <Description>Wiper Assets - Files</Description>
```

```

        <Links>
            <Link id="72633845-f1cd-43de-84f0-ebf67da64c44" system="Master" keyfield="SliceID" key="94d162bf-10ab-4476-a885-1a9663be36b4">Wiper Assets</Link>
        </Links>
    </Slice>
    <Slice id="d0eb1756-c126-44d5-b7aa-4febf7738906" type="pies-items">
        <Description>Wiper Assets - Items</Description>
        <Links>
            <Link id="3bf53423-02f2-449d-a2e9-d418882f50db" system="Master" keyfield="SliceID" key="94d162bf-10ab-4476-a885-1a9663be36b4">Wiper Assets</Link>
        </Links>
    </Slice>
</Slices>
</Pool>
</Pools>
</PrimaryNode>
<SecondaryNode>
    <Controller>
        <Description>Part Information Warehouse LLC</Description>
    </Controller>
    <Subscriptions>
        <Subscription id="4ceae38b-dbcd-40d5-bb63-43bcdfea695a" slice="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0"/>
    </Subscriptions>
</SecondaryNode>
</Sandpiper>

```

plan (/spaces/127/sandpiper/searchresults?keyword=%22plan%22&searchtags=1)

plan-xml (/spaces/127/sandpiper/searchresults?keyword=%22plan-xml%22&searchtags=1)



Like

Reply (/forums/post?tid=6028&ReplyPostID=6029&SpaceID=127)



Krister Kittelson (<https://autocare.communifire.com/people/krister-kittelson>)



6/24/2020



Doug brought up a good point in the granulation thread that the implementation is handling links as metadata, with a key:value pattern that doesn't allow for a system:keyfield:value entry.

I think that having a single key name fits with the philosophy of Sandpiper -- to have one point of contact for operations -- so I think I'll revise this plan XML to take that perspective on links as well. He also has the values separated with dashes instead of spaces, which I'm OK with.

Now, a link would look like this (Link ID removed here for brevity):

```
<Link id="..." keyfield="primary-actor-reference" key="123456">Wipers</Link>
<Link id="..." keyfield="auto-care-vcdb-version" key="2099-01-27">Wipers</Link>
```

How's that sound?

links (/spaces/127/sandpiper/searchresults?keyword=%22links%22&searchtags=1)

metadata (/spaces/127/sandpiper/searchresults?keyword=%22metadata%22&searchtags=1)

versions (/spaces/127/sandpiper/searchresults?keyword=%22versions%22&searchtags=1)

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Reply (/forums/post?tid=6028&ReplyPostID=6034&SpaceID=127)

Answer



Krister Kittelson (<https://autocare.communifire.com/people/krister-kittelson>)



6/24/2020

Here is an updated version (line-wrapped here to help communifire display it better). I've made the following changes:

1. Links now do not use the System:KeyField:Key pattern, instead using keyfield:key.
2. Key values now follow the general convention Doug has been using for the reference implementation: all lowercase, separated by dashes
3. Changed "Master" to "Root" for slice links

```
<?xml version="1.0" encoding="UTF-8"?>
<Sandpiper>
  <PrimaryNode>
    <Controller>
      <Description>Auto Parts Global</Description>
      <Contacts>
        <Contact type="primary">
          <Name>Dietrich Schmidt</Name>
          <Company>Auto Parts Global</Company>
          <Email type="work"
            >dietrich.schmidt@autopartsglobal.com</Email>
          <Phone type="work">+91 032 323 3232</Phone>
          <Phone type="mobile">+91 992 932 9923</Phone>
          <Phone type="fax">+91 032 323 9999</Phone>
          <Address>999 Dorfen Strasse, Frankfurt, DE</Address>
        </Contact>
      </Contacts>
    </Controller>
    <Links>
      <Link id="9856e8f2-2a84-4e5a-ac97-a58dc94bf027"
        keyfield="auto-care-branding-brandowner" key="XYZ">Auto
        Parts Global</Link>
      <Link id="3d76ce7e-804a-4f54-9630-da3db3c12501"
        keyfield="swift-bic" key="APGGDE10311">APG GmbH</Link>
    </Links>
    <Pools>
      <Pool id="6bce41d9-db09-4422-82d1-a2815f4dd5e4">
        <Description>Bob's Auto Parts</Description>
        <Creator>
          <Description>Bob's Auto Parts Inc.</Description>
          <Contacts>
            <Contact type="primary">
              <Name>Bob Smith</Name>
              <Company>Bob's Auto Parts Inc.</Company>
              <Email type="work">bobsmith@bobauto.com</Email>
              <Phone type="work">+1-630-555-1212 x323</Phone>
              <Phone type="fax">+1-630-555-1213</Phone>
              <Address>1 Auto Avenue, Roselle, IL 60172,
                USA</Address>
            </Contact>
            <Contact type="secondary">
              <Name>Michael Smith</Name>
              <Company>Mike's Mapping LLC</Company>
              <Email type="work">mike@mikemapping.com</Email>
              <Phone type="work">+1-847-555-1212</Phone>
              <Address>2300 N. Dorian, Suite 101, Chicago, IL
                60001, USA</Address>
            </Contact>
          </Contacts>
        </Creator>
      </Pool>
    </Pools>
  </PrimaryNode>
</Sandpiper>
```



```

<Links>
  <Link id="9856e8f2-2a84-4e5a-ac97-a58dc94bf027"
    keyfield="auto-care-branding-brand" key="XXYY">BAP
    Inc</Link>
  <Link id="a8460946-2e0c-44ed-ae48-1dd4ba779754"
    keyfield="dun-and-bradstreet-duns" key="150483782">BAP
    Incorporated</Link>
  <Link id="d4ccbaeb-e951-4773-b0f2-f28be18e7ed6"
    keyfield="swift-bic" key="APGGUS10301">BAP</Link>
</Links>
<Slices>
  <Slice id="87446ffb-1bd0-4e19-a28d-ea995fa83939"
    format="ACES" version="3.0"
    filename="APG_BAP_Wipers_ACES3_Full_2099-04-15.XML"
    type="full-file">
    <Description>Wiper Applications</Description>
    <Links>
      <Link id="4bb75b11-754e-4367-937e-ffbeab316018"
        keyfield="primary-actor-reference-code"
        key="123456">Wipers</Link>
      <Link id="1b8c9d6b-96c8-4d9b-a251-c4b3e30d1c11"
        keyfield="secondary-actor-reference-code"
        key="LLT">BAP WIPER ARMS AND BLADES</Link>
      <Link id="1539ef2f-af4f-4543-a73c-f0fc16ce449e"
        keyfield="auto-care-vcdb-version"
        key="2099-01-27">2099-01-27 Auto Care
        VCdb</Link>
      <Link id="4223597c-d71e-48e6-98a8-9e4c3adafd66"
        keyfield="auto-care-pcdb-version"
        key="2099-01-27">2099-01-27 Auto Care
        PCdb</Link>
      <Link id="693d8717-0c33-4f53-b6b7-912b76002b8f"
        keyfield="auto-care-qdb-version"
        key="2099-01-27">2099-01-27 Auto Care Qdb</Link>
    </Links>
  </Slice>
  <Slice id="5f22bed5-fc1c-4718-aeeb-c3bf9858a23d"
    type="aces-apps">
    <Description>Wiper Applications - Apps</Description>
    <Links>
      <Link id="855bfd41-a18d-4e4e-82a8-ca8ba921b8b3"
        keyfield="root-slice"
        key="87446ffb-1bd0-4e19-a28d-ea995fa83939">Wiper
        Applications</Link>
    </Links>
  </Slice>
  <Slice id="793c8717-0c33-4f53-b6b7-912b76002b9e"
    type="aces-header">
    <Description>Wiper Applications - Header</Description>
    <Links>
      <Link id="995bdd41-a18d-4e4e-42a2-ca8ba921b8b3"

```

```

        keyfield="root-slice"
        key="87446ffb-1bd0-4e19-a28d-ea995fa83939">Wiper
        Applications</Link>
    </Links>
</Slice>
<Slice id="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0"
    format="PIES" version="7.1"
    filename="APG_BAP_Wipers_PIES71_Full_2099-04-15.XML"
    type="full-file">
    <Description>Wiper Part Information</Description>
    <Links>
        <Link id="4bb75b11-754e-4367-937e-ffbeab316018"
            keyfield="primary-actor-reference-code"
            key="123456">Wipers</Link>
        <Link id="1b8c9d6b-96c8-4d9b-a251-c4b3e30d1c11"
            keyfield="secondary-actor-reference-code"
            key="LLT">BAP WIPER ARMS AND BLADES</Link>
        <Link id="4223597c-d71e-48e6-98a8-9e4c3adafd66"
            keyfield="auto-care-pcdb-version"
            key="2099-01-27">2099-01-27 Auto Care
            PCdb</Link>
        <Link id="693d8717-0c33-4f53-b6b7-912b76002b8f"
            keyfield="auto-care-padb-version"
            key="2099-01-27">2099-01-27 Auto Care
            PAdb</Link>
    </Links>
</Slice>
<Slice id="06f9f65f-1196-4db3-b7c0-207eae79f17f"
    type="pies-pricesheets">
    <Description>Wiper Part Information - Price
        Sheets</Description>
    <Links>
        <Link id="855bfd41-a18d-4e4e-82a8-ca8ba921b8b3"
            keyfield="root-slice"
            key="87446ffb-1bd0-4e19-a28d-ea995fa83939">Wiper
            Part Information</Link>
    </Links>
</Slice>
<Slice id="eb7ec8f2-5823-4150-b482-c1c6b36dbd25"
    type="pies-items">
    <Description>Wiper Part Information -
        Items</Description>
    <Links>
        <Link id="855bfd41-a18d-4e4e-82a8-ca8ba921b8b3"
            keyfield="root-slice"
            key="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0">Wiper
            Part Information</Link>
    </Links>
</Slice>
<Slice id="2d9fbb94-64e2-48ad-a674-38f7cc53aa2d"
    type="pies-marketcopy">

```

```
<Description>Wiper Part Information - Market
Copy</Description>
<Links>
  <Link id="500a4ce9-e43a-4aa6-811b-fedf08d84cfa"
    keyfield="root-slice"
    key="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0">Wiper
    Part Information</Link>
</Links>
</Slice>
<Slice id="38c29672-a15b-49d0-8f29-fe7bf8ffaaaa"
  type="pies-header">
  <Description>Wiper Part Information -
    Header</Description>
  <Links>
    <Link id="995bdd41-a18d-4e4e-42a2-ca8ba921b8b3"
      keyfield="root-slice"
      key="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0">Wiper
      Part Information</Link>
  </Links>
</Slice>
<Slice id="94d162bf-10ab-4476-a885-1a9663be36b4"
  format="Archive" version="ZIP"
  filename="APG_BAP_Wipers_Assets_Full_2099-04-15.zip"
  type="full-file">
  <Description>Wiper Assets</Description>
  <Links>
    <Link id="d22062a1-cc53-4b22-ab5b-475cf3024ca3"
      keyfield="primary-actor-reference-code"
      key="123456">Wipers</Link>
    <Link id="f0da3c20-0cd6-46fe-8005-92eee14ededf"
      keyfield="secondary-actor-reference-code"
      key="LLT">BAP WIPER ARMS AND BLADES</Link>
    <Link id="a28efd9e-ec60-43ee-8c86-f6b73e4df3d3"
      keyfield="auto-care-pcdb-version"
      key="2099-01-27">2099-01-27 Auto Care
      PCdb</Link>
    <Link id="f347de04-be7f-4214-8d70-fbde410ec572"
      keyfield="auto-care-padb-version"
      key="2099-01-27">2099-01-27 Auto Care
      PAdb</Link>
  </Links>
</Slice>
<Slice id="73e5c8ea-4305-44f9-8c7b-13277978c085"
  type="asset-files">
  <Description>Wiper Assets - Files</Description>
  <Links>
    <Link id="72633845-f1cd-43de-84f0-ebf67da64c44"
      keyfield="root-slice"
      key="94d162bf-10ab-4476-a885-1a9663be36b4">Wiper
      Assets</Link>
  </Links>
```

```

    </Slice>
    <Slice id="d0eb1756-c126-44d5-b7aa-4febf7738906"
      type="pies-items">
      <Description>Wiper Assets - Items</Description>
      <Links>
        <Link id="3bf53423-02f2-449d-a2e9-d418882f50db"
          keyfield="root-slice"
          key="94d162bf-10ab-4476-a885-1a9663be36b4">Wiper
          Assets</Link>
      </Links>
    </Slice>
  </Slices>
</Pool>
</Pools>
</PrimaryNode>
<SecondaryNode>
  <Controller>
    <Description>Part Information Warehouse LLC</Description>
  </Controller>
  <Subscriptions>
    <Subscription id="4ceae38b-dbcd-40d5-bb63-43bcdfea695a"
      slice="be6c9e83-1007-4cf6-ac92-d1c3ece1c4d0" />
  </Subscriptions>
</SecondaryNode>
</Sandpiper>

```

👍 Like

Reply (/forums/post?tid=6028&ReplyPostID=6037&SpaceID=127)

Answer



Doug Winsby (<https://autocare.communifire.com/people/dougwinsby>)



:

6/29/2020

I'm trying to understand how this xml "plan" would be used. I see a subscription setup workflow like the following:

1. Go to sandpiper primary website. This would present a "registration request" screen asking for very basic information from the requester (the UUID is their Sandpiper Server ID):



Joe Smith

joe.smith@bigwd.com

Big WD Store

c6e729e3-ded5-4723-9274-1b9f356f2

Distributor



REGISTER

[Terms & Conditions](#)

When they press register, it sends an email to the primary's admin contact with this information.

2. The admin then verifies the information and sends a link to an online form which is used to create a detailed request for the information they want.

3. The admin uses this request form to create subscription(s) from existing slices, or create new slices as necessary.

Assuming the PIM can understand how to populate those new slices, they will be delivered as part of a normal sync process. (The sync sends any subscriptions, slices and grains assigned to them).

👍 Like

Reply (/forums/post?tid=6028&ReplyPostID=6042&SpaceID=127)

Answer





7/7/2020

I think you're right that for the regular user, the plan would not be part of their work. My thought is that the plan is a state snapshot, but instead of being about the product data, it is about the agreement: it codifies the contract as understood by both parties at a given moment in time.

By codifying the contract in a document, the agreement transcends the implementation. This provides a few benefits and potential developments:

1. History of agreement over time

- As the plan changes, it can be compared easily to previous states, either through a programming language or using a diff tool

2. Implementation-agnostic hook for external tools

- Database software that is restricted from executing scripts or that does so poorly can instead integrate XML directly (Pentaho, Talend, SSIS, etc) to gather data about what slice IDs are where etc.
- Large implementers with multiple Sandpiper instances can create a central agreement repository for use during management in their own special scenarios that don't make sense to plan for in our own project

3. Separation of agreement operations and agreement state

- The API dictates the operations, the XML describes the state
- Because a given implementation can always choose to structure its own internal schema differently from the reference, the XML allows the direct comparison of expected vs. actual outcomes

I figured that this XML document would be explicitly passed between nodes after negotiation is complete, and then the nodes can choose to store it safely someplace as a codified representation of what they both agreed to. That way, when something rears its head (unexpected results or changes), they both have a canonical agreement that they accepted, and so intent is removed from the problem-solving chain.

And so, since the XML represents state and not action, the node is not expected to modify its agreements based on the XML; only to verify its internal state matches the intermediary unambiguous representation that the Plan XML codifies.

I'd say the primary node would be responsible for saying, "OK, based on what we just did in the API, here's my XML plan. Agreed?" and then the secondary can say "Yes, this is what I thought, proceed" or raise an exception if things don't line up.

In this way we get much more verifiable and reproducible states.

👍 Like

Reply (/forums/post?tid=6028&ReplyPostID=6054&SpaceID=127)

Answer



Krister Kittelson (<https://autocare.communifire.com/people/krister-kittelson>)



7/7/2020

On 7/7/2020 8:44 AM, Krister Kittelson said:

History of agreement over time

- As the plan changes, it can be compared easily to previous states, either through a programming language or using a diff tool

After writing this I realized we'll need a good timestamp in the plan to represent the version. I've added this as an attribute of the root element, using the ISO standard:

```
<Sandpiper timestamp="2099-04-07T13:01:45.04">  
  <!-- ISO 8601-1:2019, UTC, up to two digit second fractions -->
```

👍 Like

Reply (/forums/post?tid=6028&ReplyPostID=6055&SpaceID=127)

Answer



Doug Winsby (<https://autocare.communifire.com/people/dougwinsby>)



8/12/2020

You make some good points, but I'm still wrapping my head around the idea of storing a data exchange "plan" in a separate document.

We could store the plan as tables in a sandpiper database, but I'm not sure how that would be any better. We could also create an [xml data type](https://www.postgresql.org/docs/current/datatype-xml.html) (<https://www.postgresql.org/docs/current/datatype-xml.html>) (or [json data type](https://www.postgresql.org/docs/current/datatype-json.html) (<https://www.postgresql.org/docs/current/datatype-json.html>)) field on the Customer table.

In any case, we'd probably need a UI to maintain the "plan". That could be part of the Admin screens.

But I'm still uncomfortable with having **two definitions** for the Slices and Subscriptions (one in the current db tables and another in a "plan" document).

👍 Like

[Reply \(/forums/post?tid=6028&ReplyPostID=6102&SpaceID=127\)](/forums/post?tid=6028&ReplyPostID=6102&SpaceID=127)

Answer



Doug Winsby (<https://autocare.communifire.com/people/dougwinsby>)



8/29/2020

How to codify the business relationship between partners

I think we are in agreement (after yesterday's call) that the "plan" configuration will be stored in database tables which can be used by an external PIM to populate the syncable objects (subscriptions, metadata and grains).

We could also export that information to some kind of a file (xml?) as a record of the agreement.

We need to design a new set of Plan APIs to maintain and query these Plan tables.

[plan-api \(/spaces/127/sandpiper/searchresults?keyword=%22plan-api%22&searchtags=1\)](/spaces/127/sandpiper/searchresults?keyword=%22plan-api%22&searchtags=1)

👍 Like

[Reply \(/forums/post?tid=6028&ReplyPostID=6141&SpaceID=127\)](/forums/post?tid=6028&ReplyPostID=6141&SpaceID=127)

Answer

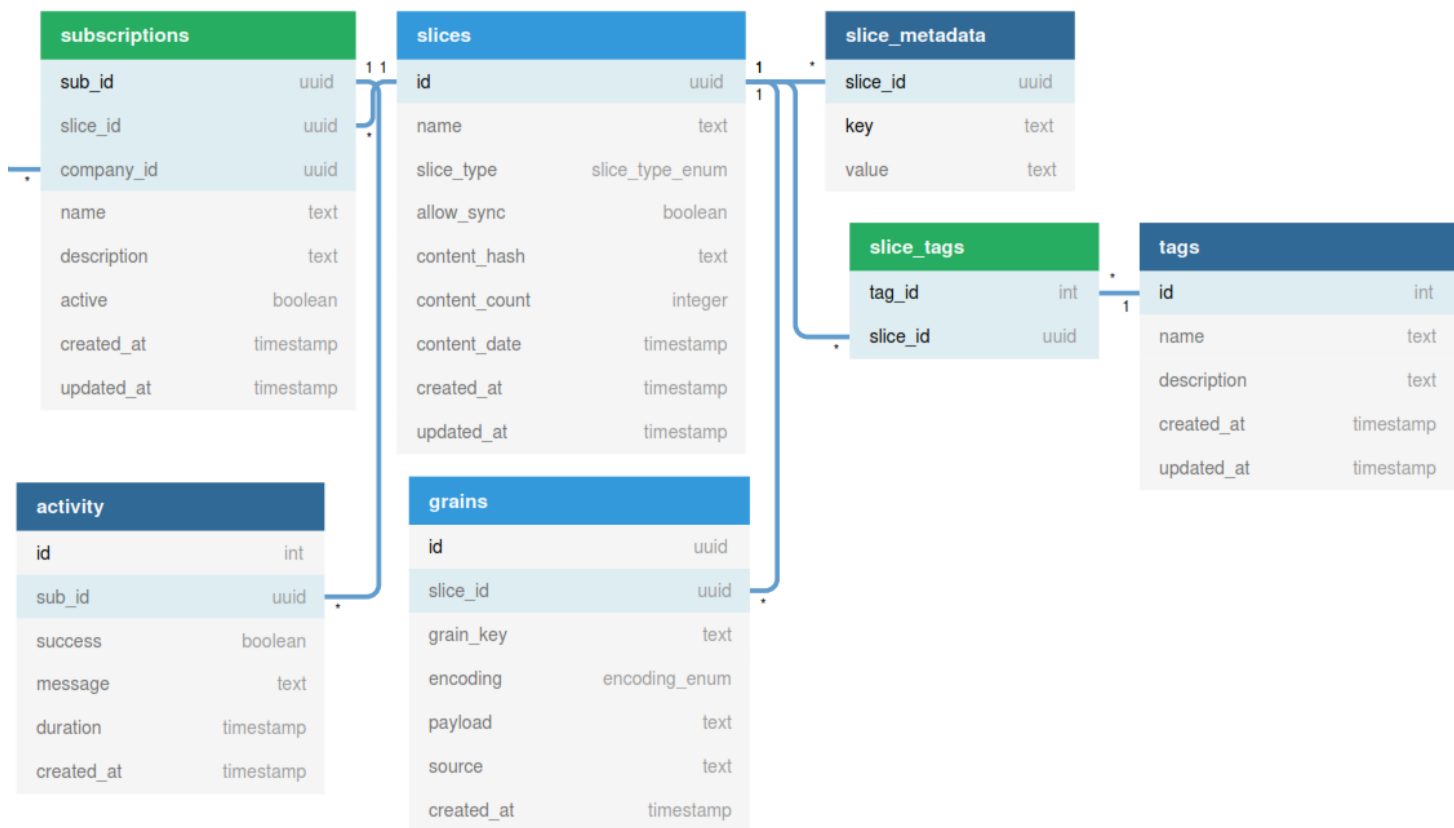


Doug Winsby (<https://autocare.communifire.com/people/dougwinsby>)



9/3/2020

Here is part of the database design that deals with [subscriptions](#), [slices](#) and [slice_metadata](#).



`tags` (and `slice_tags`) are for internal organization and not synced with trading partners.

We may want to add some fields to `slice_metadata` to better support the Plan.

One of the things we need to understand is how to define a slice. Whatever we use, we need to represent it in the `slice_metadata`.

One thought is to limit the criteria to PIES data for an Item (i.e. part number). So that would allow, for example, the following selection criteria for a slice:

```

Group, SubGroup
PCdb PartTerminology
VMRSCode
PAdb Attribute
...
  
```

Just some food for thought.

[plan-criteria \(/spaces/127/sandpiper/searchresults?keyword=%22plan-criteria%22&searchtags=1\)](/spaces/127/sandpiper/searchresults?keyword=%22plan-criteria%22&searchtags=1)

👍 Like

[Reply \(/forums/post?tid=6028&ReplyPostID=6157&SpaceID=127\)](/forums/post?tid=6028&ReplyPostID=6157&SpaceID=127)

Answer



Doug Winsby (<https://autocare.communifire.com/people/dougwinsby>)



9/10/2020

New requirements for slice_metadata:

1. Some keys sync, others don't (need a sync flag)
2. Need Standardized keys, plus ability to define your own
3. **Key types:** Reference Keys, Internal Keys, Customer-specific Keys, Plan-specific Keys

Should we add keys to the xsd (for the Plan xml output)? [I'm not sure we need this]

Should we have a `keys` table in the database?

```
CREATE TABLE IF NOT EXISTS keys (  
  "id" text PRIMARY KEY,  
  "description" text NOT NULL,  
  "keytype" enum, /* "ref", "plan", "customer", "internal" */  
  "syncable" boolean,  
  "created_at" timestamp,  
  "updated_at" timestamp  
);  
CREATE UNIQUE INDEX ON id (lower(id));
```



Like

[Reply \(/forums/post?tid=6028&ReplyPostID=6161&SpaceID=127\)](/forums/post?tid=6028&ReplyPostID=6161&SpaceID=127)

Answer