



Overview R&D

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nsx
NORMALIZED SYSTEMS

- 1. Alerting Component**
- 2. Workflow**
- 3. ValueTypes**
- 4. Mapping Files**
- 5. DataResources**
- 6. Expansion Diff**



Alerting Component

From

To

Subject **Fire all alerts!**

Reply

Forward

Archive

Junk

Delete

More

3/03/2023 16:12

ALERT
Fire all alerts!

Priority

HIGH

Timestamp

Wed, 1 Mar 2023 15:11:22 +01:00

Message

Pew pew

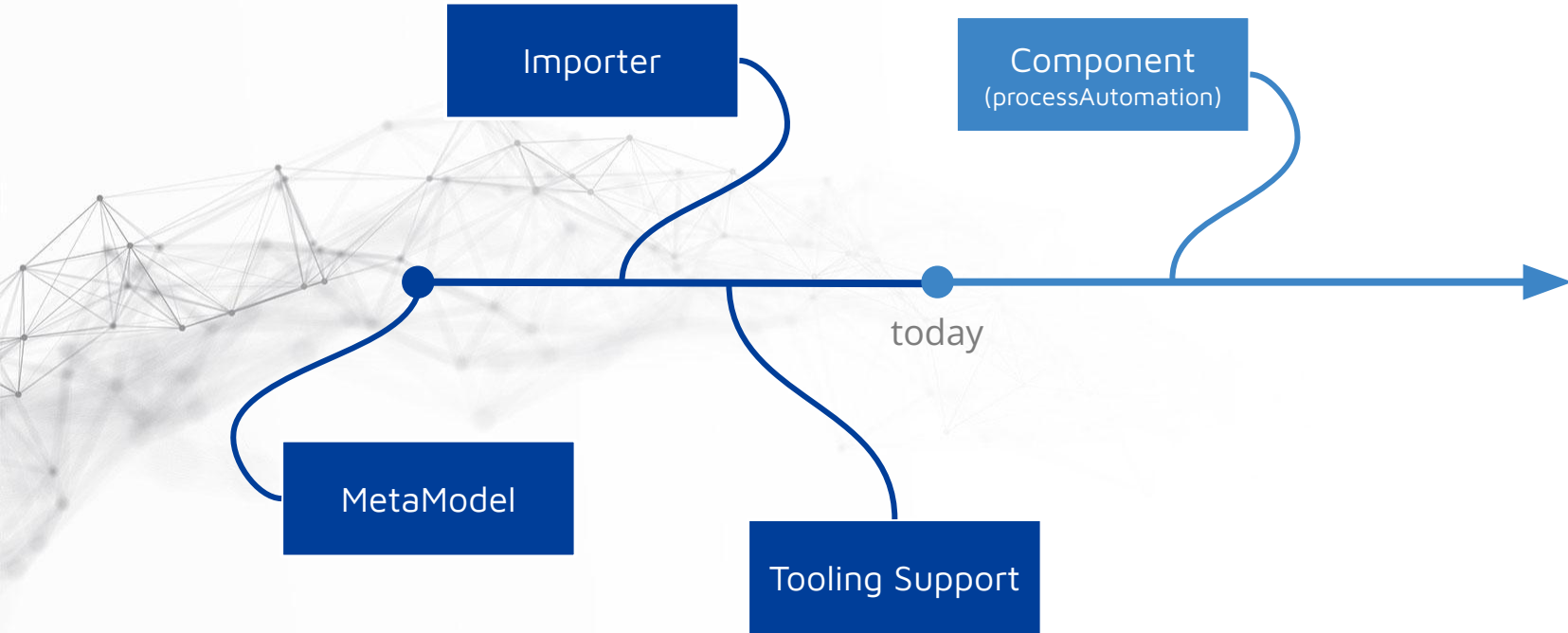
More information

[Link](#)

Send alerts over Slack, Email, Pushover, SLF4J (debugging) and your own channels!

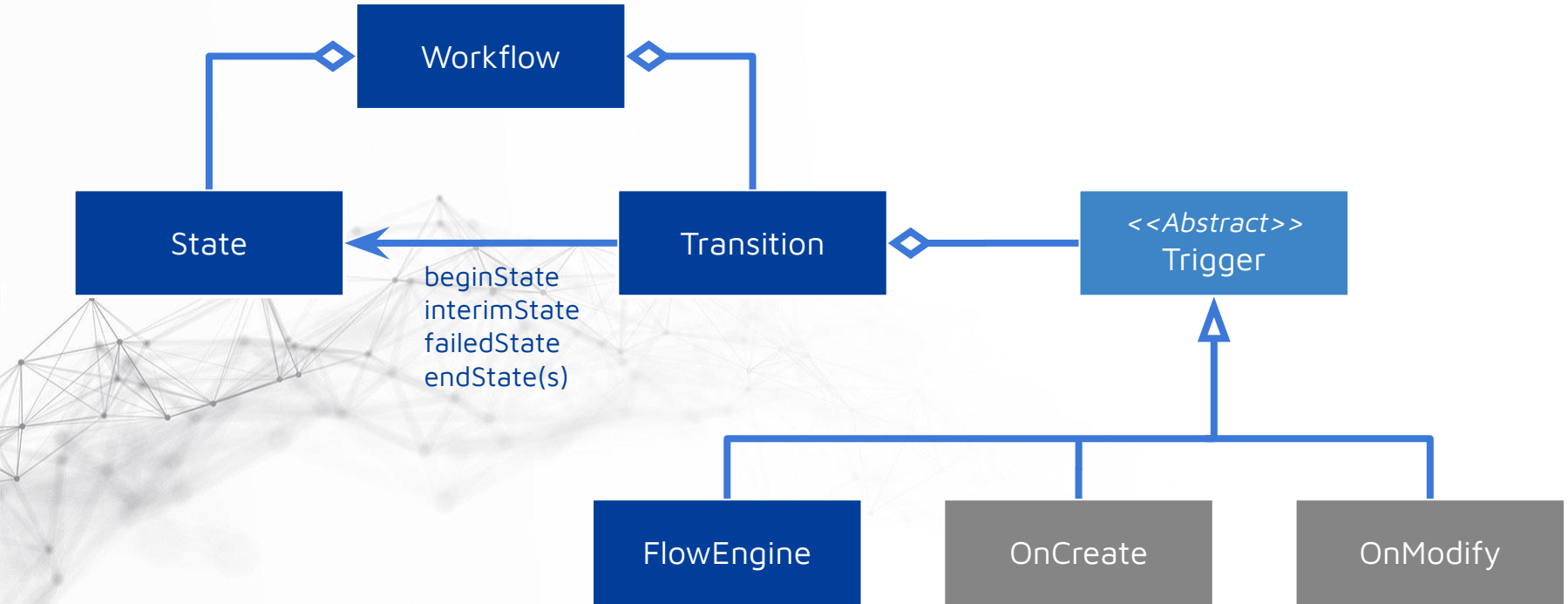
- Pub-sub system in database
- Extensible with expander options in other components
- Workflow driver alert processing (scheduling and dispatching)







Workflow - Metamodel



Not supported in Workflow component



Workflow - Importer

μRadiant

jdbc://database

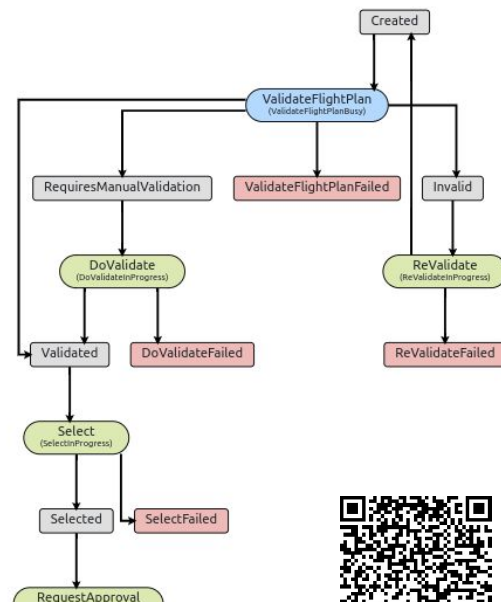
Importer

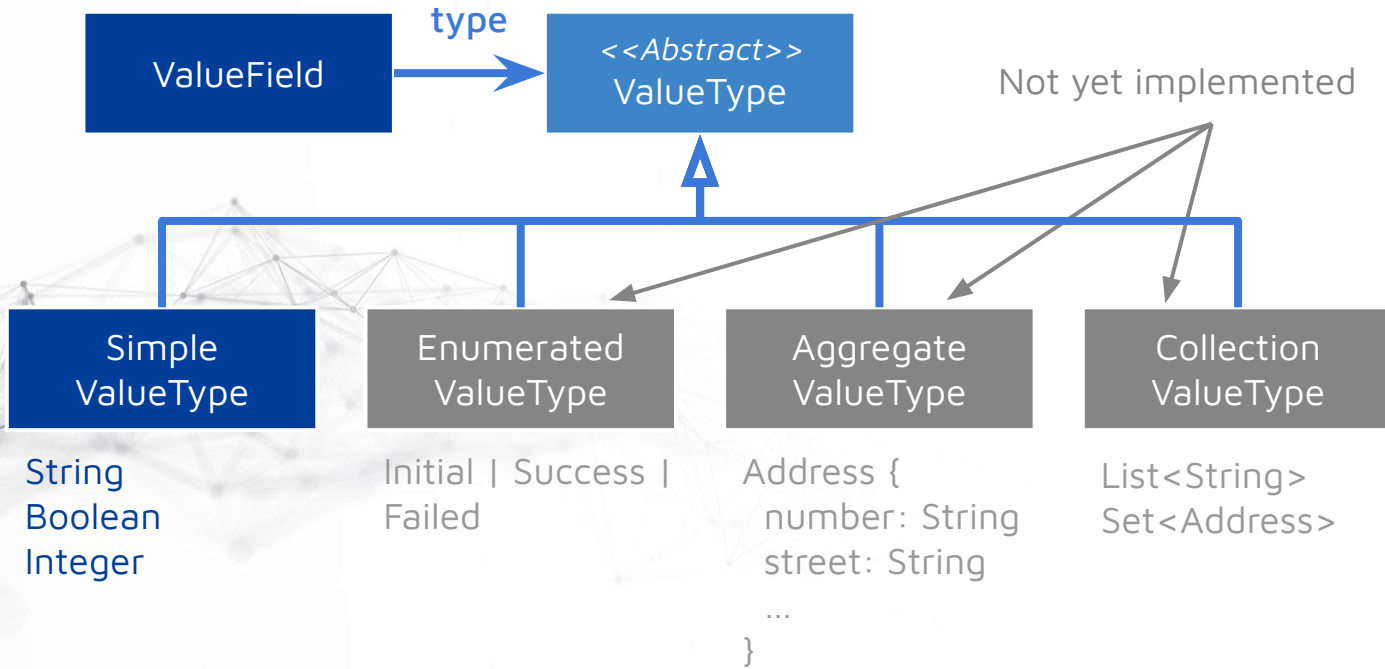
```
(11, NULL, 'no', 'no', 0, '2017-03-25 14:00:00.000', NULL, 'MgttMe  
(12, NULL, 'no', 'no', 0, '2017-03-25 14:00:00.000', NULL, 'Operat  
(13, NULL, 'no', 'no', 0, '2017-03-25 14:00:00.000', NULL, 'OrderS  
(14, NULL, 'no', 'no', 0, '2017-03-25 14:00:00.000', NULL, 'OrderC
```

```
insert into workflow.statetask (id, beginstate, endstate, failedstate, '  
(1, 'Received', 'OperationCreated', 'CreateOper  
(2, 'OperationCreated', '-', 'IsTranspor  
(3, 'TransportCreated', '-', 'IsOperatic  
(4, 'Approved', '-', 'IsOperatic  
(5, 'ReadyForCargo', '-', 'IsCargoAtC  
(6, 'CargoReceived', '-', 'IsOperatic  
(7, 'Departed', '-', 'IsOperatic  
(8, 'Arrived', '-', 'IsCargoDel  
(9, 'LookingForTransport', 'TransportCreated', 'CreateTrar  
(10, 'TransportCreated', '-', 'IsTranspor  
(11, 'Approved', '-', 'IsTranspor  
(12, 'AtOrigin', '-', 'IsCargoRec  
(13, 'TransportLoaded', '-', 'IsTranspor  
(14, 'TransportInProgress', '-', 'IsTranspor  
(15, 'Created', 'FlightPlanCreated', 'CreateFli  
(16, 'FlightPlanCreated', '-', 'IsFlightPl
```

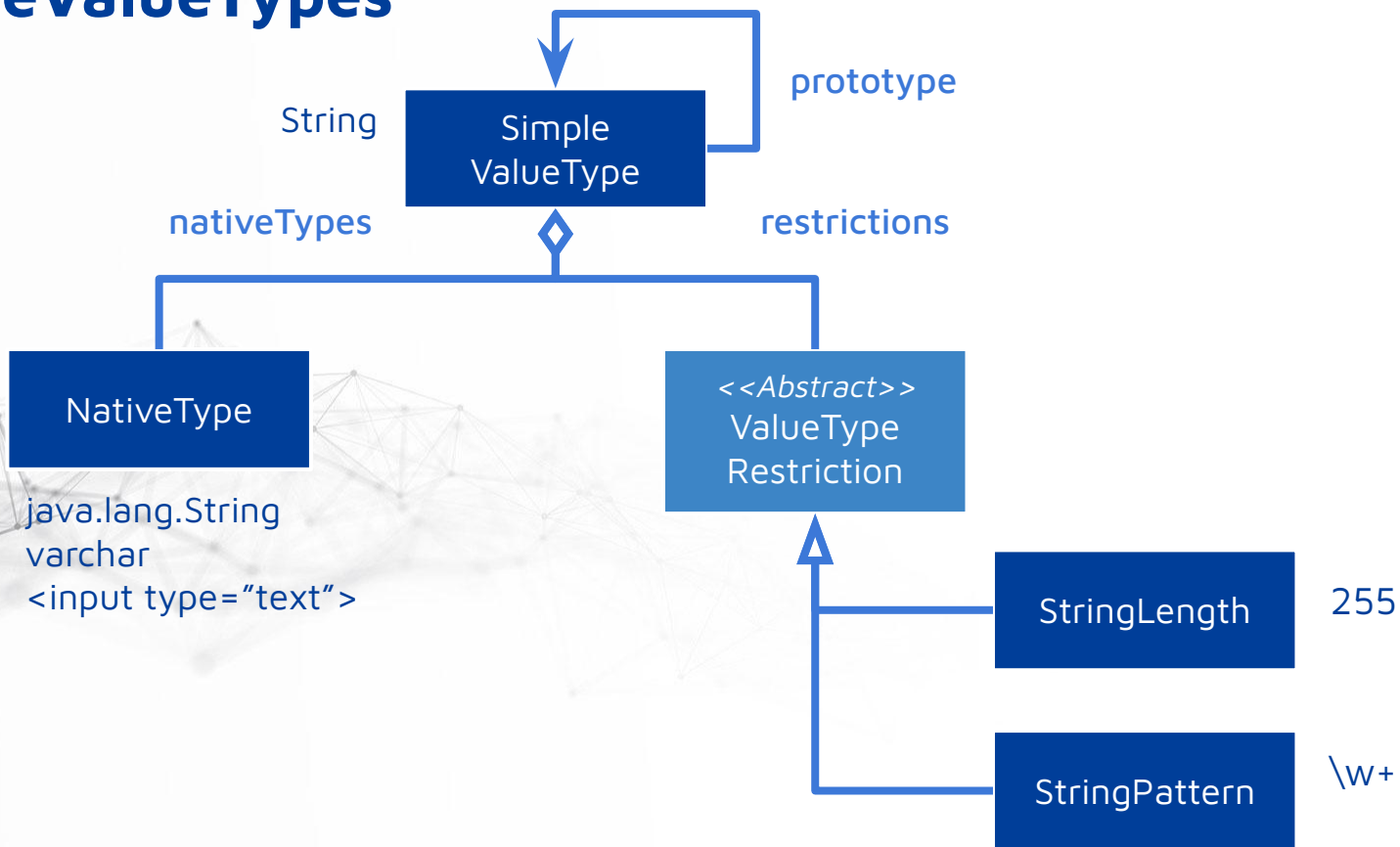
- Workflow (9) [workflows::Workflow]
 - FlightDCPFlow
 - FlightFlow
 - FlightPlanFlow
 - states (26) [workflows::State]
 - transitions (8) [workflows::Transition]
 - ValidateFlightPlan
 - triggers (1) [workflows::Trigger]
 - FlowEngine
 - ApproveFlightPlan
 - IsFlightPlanApproved
 - Select
 - DoValidate
 - RequestApproval
 - Reschedule
 - ReValidate

FlightPlanFlow



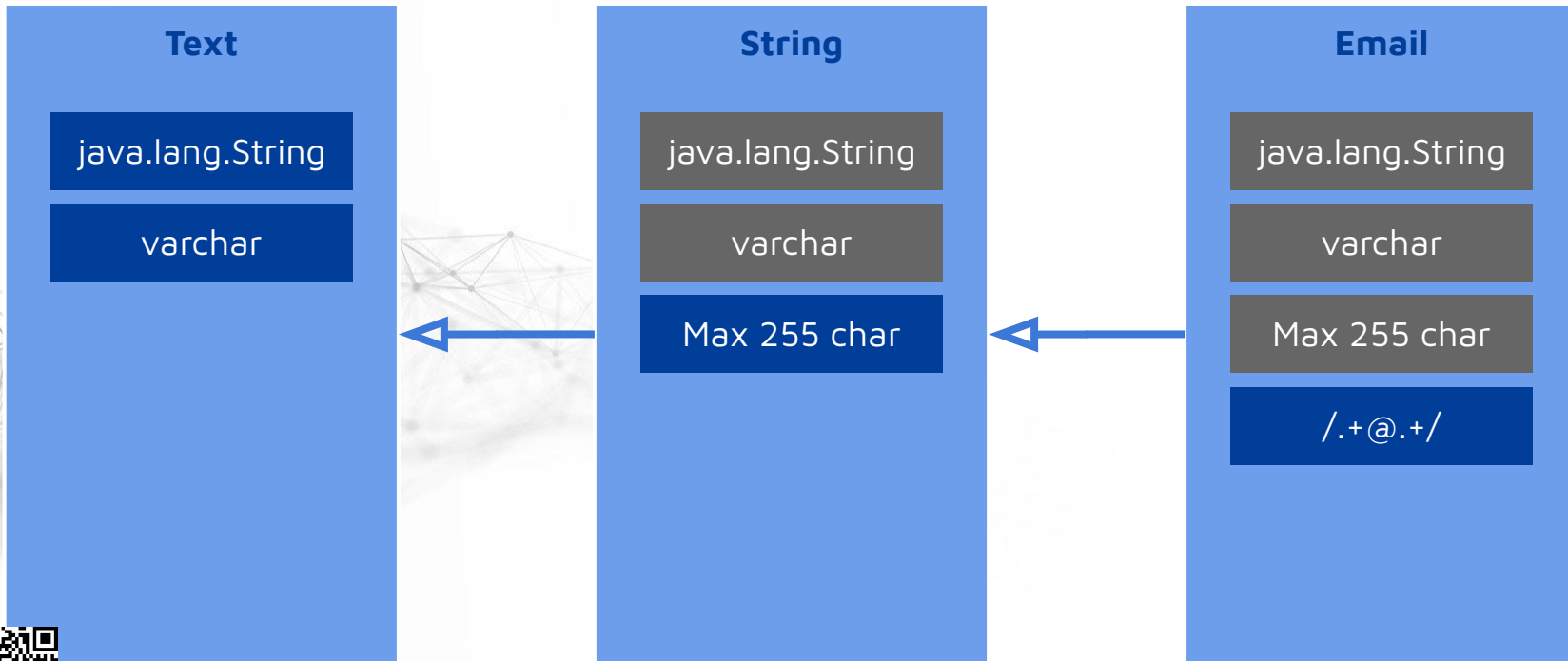


SimpleValueTypes



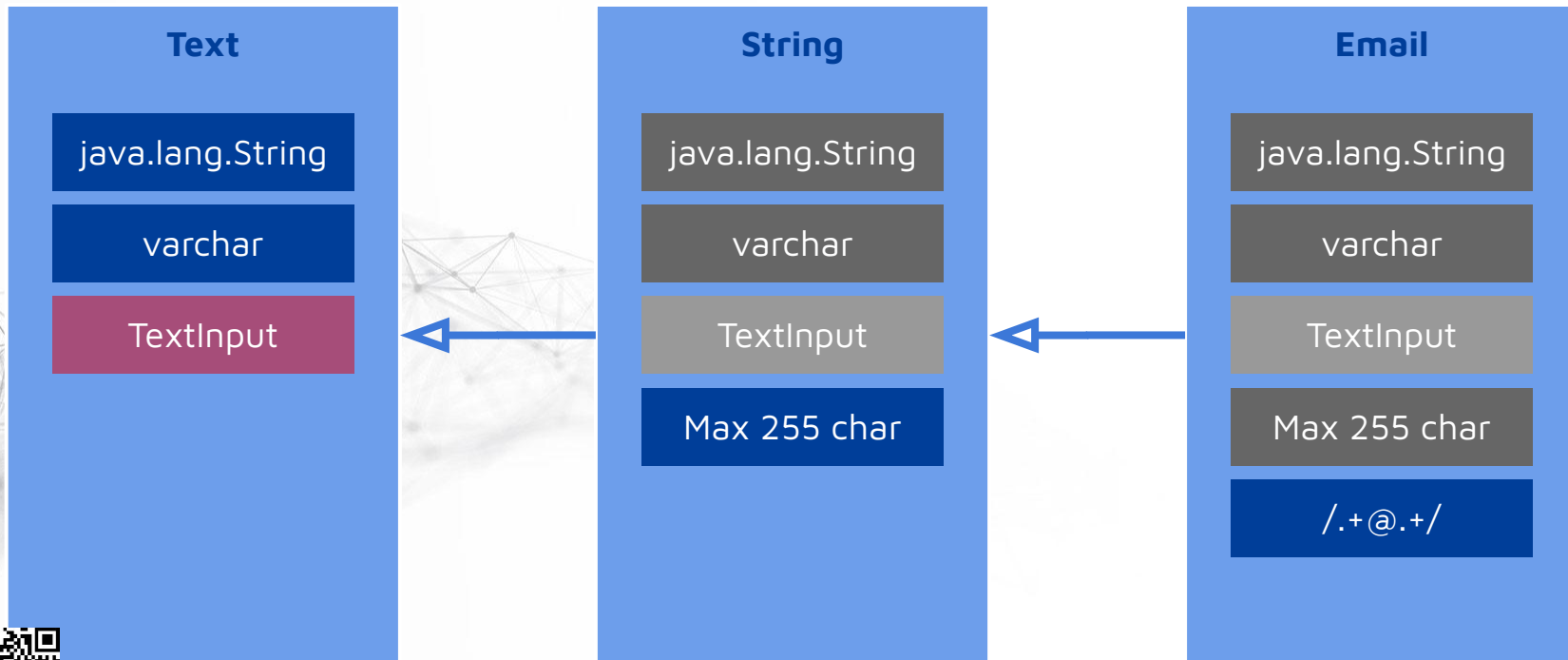


SimpleValueTypes: prototype





SimpleValueTypes: prototype





Mapping Files: new syntax

```
<mapping>
  <!-- filter and distinct in list -->
  <list name="valueTypeImports"
    eval="dataElement.fields"
    param="field">
    <filter name="isValueField" eval="field.valueField neq null"/>
    <let name="javaType" eval="field.javaType"/>
    <filter name="notJavaLang" eval="javaType.packageName neq 'java.lang'"/>
    <distinct name="distinctJavaTypes" eval="type"/>
    <value name="qualifiedName" eval="javaType.qualifiedTypeName"/>
  </list>
  <!-- list methods -->
  <list name="allDataElements" eval="application.components.{ dataElements }.flatten"/>
  <value name="hasCommands" eval="dataElement.dataCommands.notEmpty"/>
  <!-- lambda conversion -->
  <value name="stuff" eval="someOptional.map(:[ #this.stuff ]).orElse('nothing')"/>
</mapping>
```



DataResources: _data.xml obsoleted

```
<dataResource type="elements::ConcernType">
  <concernType name="TRANSPORT">
    <description>-</description>
  </concernType>
  <concernType name="UNKNOWN">
    <description>-</description>
  </concernType>
</dataResource>
```

```
<dataResources>
  <dataResource>
    <path>data/technologies.xml</path>
    <elementTypeCanonicalName>net.democritus.settings.Techno
  </dataResource>
  <dataResource>
    <path>data/sourceTypes.xml</path>
    <elementTypeCanonicalName>net.democritus.settings.Source
  </dataResource>
  <dataResource>
    <path>data/optionTypes.xml</path>
    <elementTypeCanonicalName>net.democritus.elements.Option
  </dataResource>
</dataResources>
```





Expansion Diff

```
java -jar ./expansion-diff-tool-1.1.0-jar-with-dependencies.jar \  
  ./conf/expansionSettings.xml ./conf/expansionSettings_new.xml \  
  --pomXml pom-expansion.xml \  
  --output 2023.9.0-upgrade.diff \  
  --collapseExpanders
```

```
1 File Diffs  
2 original: .\conf\expansionSettings.xml  
3 revised: .\conf\expansionSettings_new.xml  
4 45 different files  
5 =====  
6 --- roosterplanning/components/account/data/gen/jpa/src/net/democritus/acl/DataAccessData.java (net.democritus.expander.jpa.dataElement.DataExpander, 36 similar files)  
7 +++ roosterplanning/components/account/data/gen/jpa/src/net/democritus/acl/DataAccessData.java (net.democritus.expander.jpa.dataElement.DataExpander, 36 similar files)  
8 @@ -99,45 +99,6 @@  
9      // @anchor:default-constructor:end  
10     }  
11  
12 - /**  
13 -  * @deprecated Use default constructor and setters  
14 -  */  
15 - @Deprecated  
16 - public DataAccessData(Long id  
17 -     // @anchor:constructor-parameters:start  
18 -     , String name
```





Expansion Diff

```
diff2html -i file -- 2023.9.0-upgrade.diff
```

Files changed (4) hide

- roosterplanning/components/account/data/gen/jpa/src/net/democritus/acl/DataAccessData.java (net.democritus.expander.jpa.dataElement.DataExpander, 36 similar files) +0 -39
- roosterplanning/components/account/view/gen/knockout/js/account/account-component-info.js (net.democritus.expander.knockout.component.ComponentInformationJsEx... +1 -1
- roosterplanning/pom.xml (net.democritus.expander.maven.application.ApplicationRootPomExpander) +11 -11
- roosterplanning/shared/gen/common/resources/application.properties +18 -18

roosterplanning/components/account/data/gen/jpa/src/net/democritus/acl/DataAccessData.java (net.democritus.expander.jpa.dataElement.DataExpander, 36 similar files) CHANGED ☐

```
@@ -99,45 +99,6 @@
99      99      // @anchor:default-constructor:end
100     100    }
101     101
102     102    - /**
103     103    -  * @deprecated Use default constructor and setters
104     104    -  */
105     105    - @Deprecated
106     106    - public DataAccessData(Long id
107
108    - // @anchor:constructor-parameters:start
```

