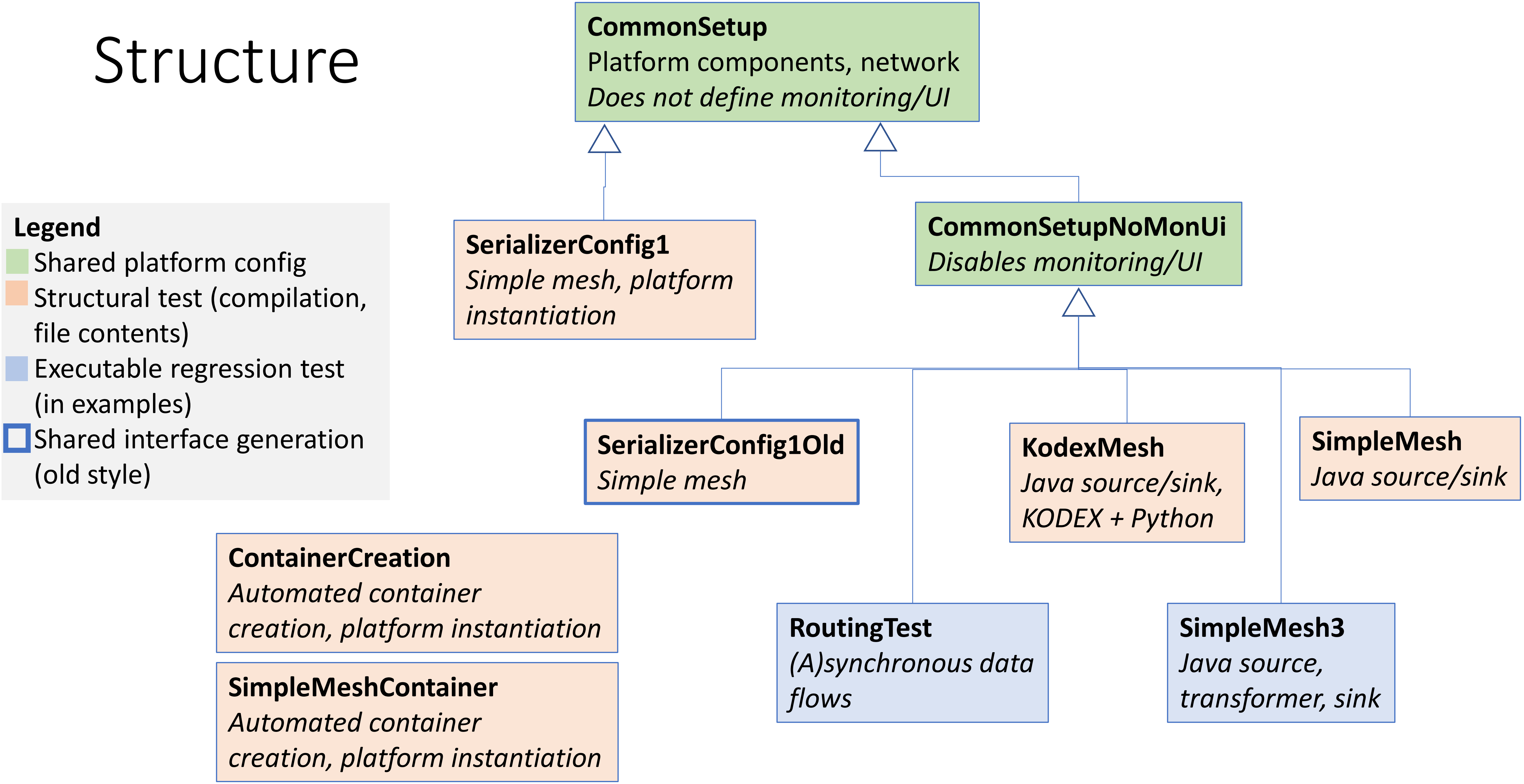
Purpose

- Structural regression tests
  - Does the build process work
  - Is source code compilable (Java, Python)
  - Is Yaml structure ok
  - Are generated files not empty
  - Are expected files there
- Preparation for execution regression tests (in dependent project `examples`)
- Mutual dependency on test.configuration.configuration implementing the services (based on generated interfaces, integrated via dynamic class loading)

Structure



Legend

🟩 Shared platform config

🟧 Structural test (compilation, file contents)

🟦 Executable regression test (in examples)

□ Shared interface generation (old style)

CommonSetup
Platform components, network
Does not define monitoring/UI

SerializerConfig1
Simple mesh, platform instantiation

CommonSetupNoMonUi
Disables monitoring/UI

SerializerConfig1Old
Simple mesh

KodexMesh
Java source/sink, KODEX + Python

SimpleMesh
Java source/sink

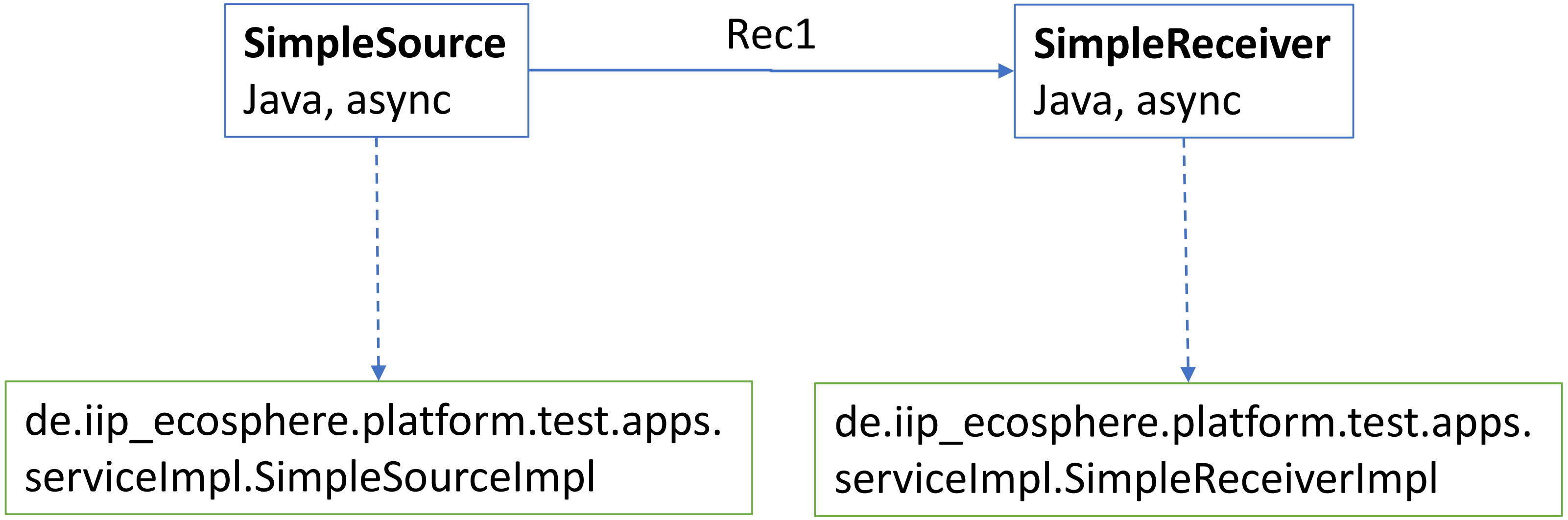
ContainerCreation
Automated container creation, platform instantiation

SimpleMeshContainer
Automated container creation, platform instantiation

RoutingTest
(A)synchronous data flows

SimpleMesh3
Java source, transformer, sink

SimpleMesh (simple flow, async)



SimpleSource
Java, async

Rec1

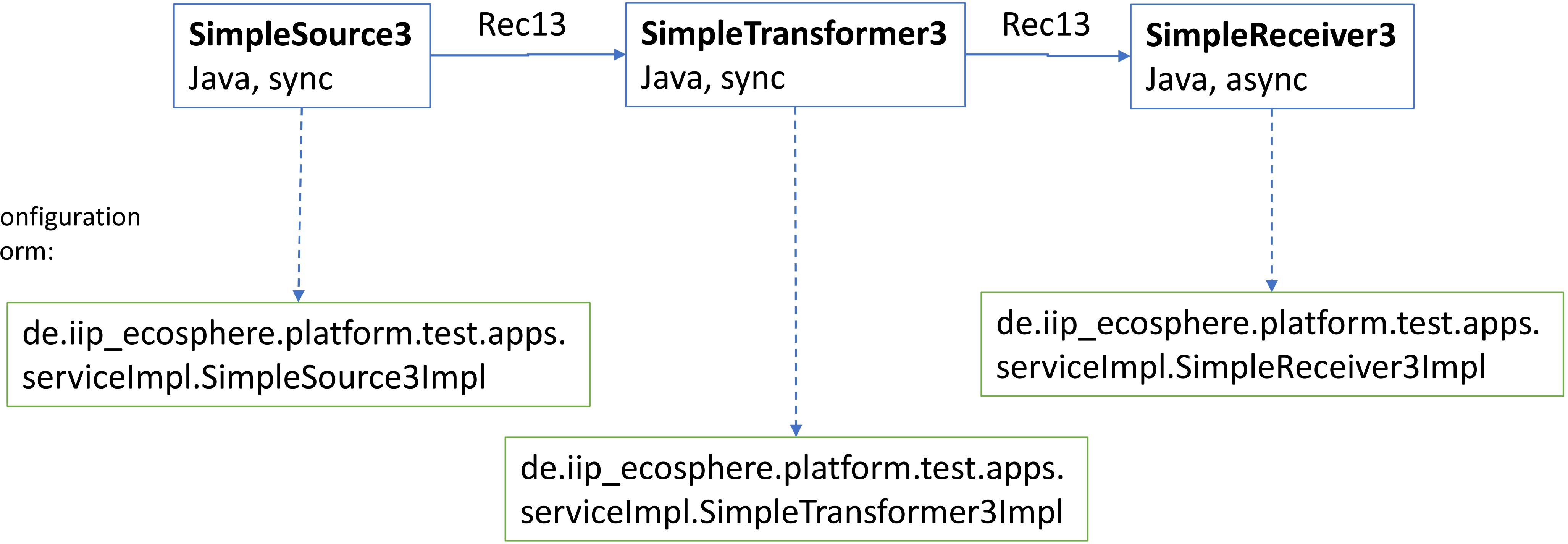
SimpleReceiver
Java, async

de.iip_ecosphere.platform.test.apps.serviceImpl.SimpleSourceImpl

de.iip_ecosphere.platform.test.apps.serviceImpl.SimpleReceiverImpl

In test.configuration.configuration
de.iip-ecosphere.platform:
apps.ServiceImpl:
iipVer

SimpleMesh3 (simple flow with transformer, partially sync)



SimpleSource3
Java, sync

Rec13

SimpleTransformer3
Java, sync

Rec13

SimpleReceiver3
Java, async

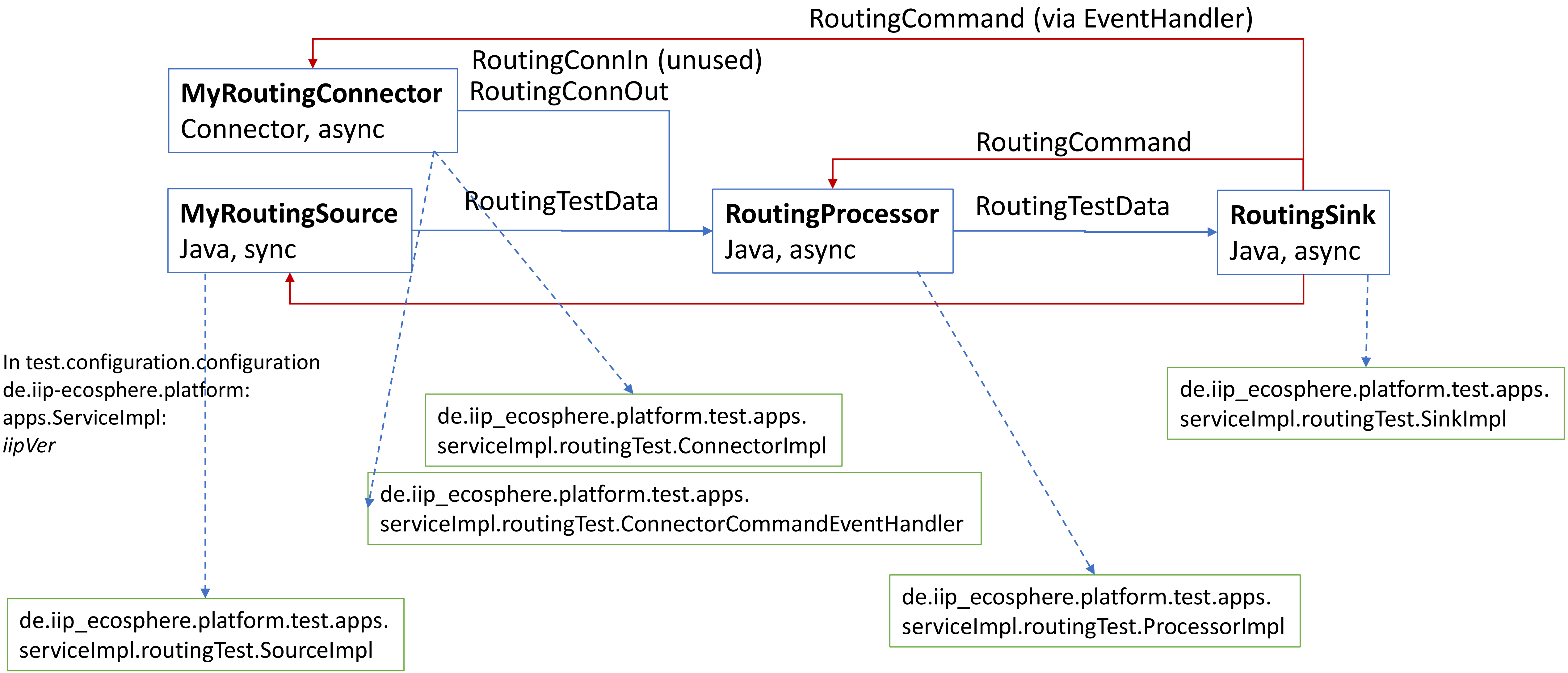
de.iip_ecosphere.platform.test.apps.
serviceImpl.SimpleSource3Impl

de.iip_ecosphere.platform.test.apps.
serviceImpl.SimpleTransformer3Impl

de.iip_ecosphere.platform.test.apps.
serviceImpl.SimpleReceiver3Impl

In test.configuration.configuration
de.iip-ecosphere.platform:
apps.ServiceImpl:
iipVer

RoutingTest (testable connections)



RoutingCommand (via EventHandler)

RoutingConnIn (unused)
RoutingConnOut

MyRoutingConnector
Connector, async

RoutingCommand

MyRoutingSource
Java, sync

RoutingTestData

RoutingProcessor
Java, async

RoutingTestData

RoutingSink
Java, async

In test.configuration.configuration
de.iip-ecosphere.platform:
apps.ServiceImpl:
iipVer

de.iip_ecosphere.platform.test.apps.
serviceImpl.routingTest.ConnectorImpl

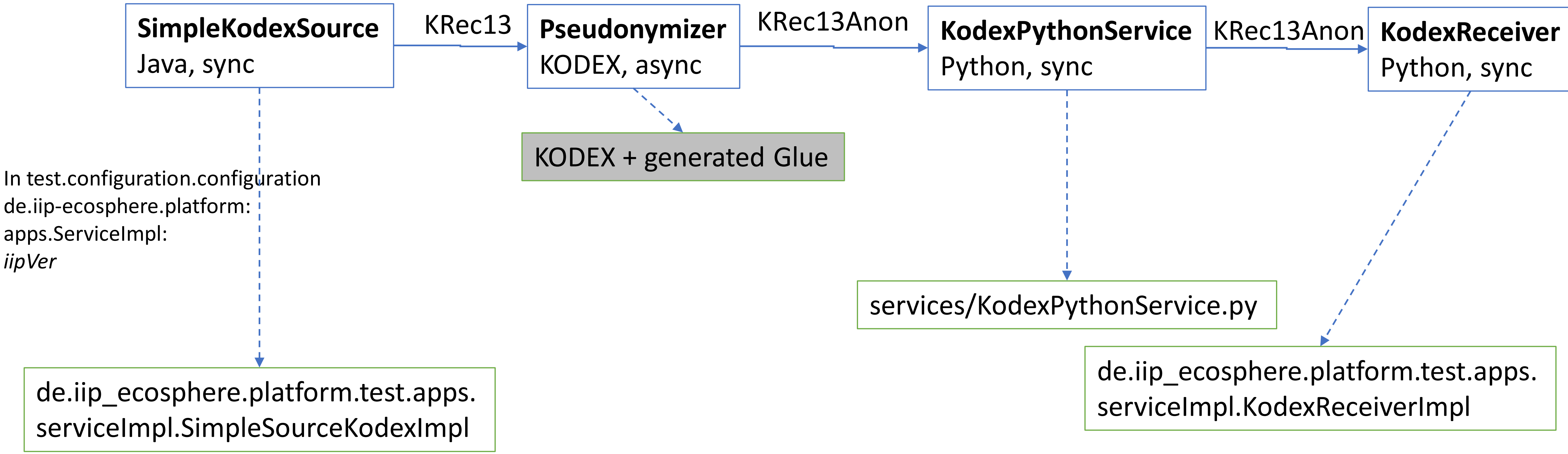
de.iip_ecosphere.platform.test.apps.
serviceImpl.routingTest.SinkImpl

de.iip_ecosphere.platform.test.apps.
serviceImpl.routingTest.ConnectorCommandEventHandler

de.iip_ecosphere.platform.test.apps.
serviceImpl.routingTest.ProcessorImpl

de.iip_ecosphere.platform.test.apps.
serviceImpl.routingTest.SourceImpl

KodexMesh (integrated components KODEX and Python)



SimpleKodexSource
Java, sync

KRec13

Pseudonymizer
KODEX, async

KRec13Anon

KodexPythonService
Python, sync

KRec13Anon

KodexReceiver
Python, sync

KODEX + generated Glue

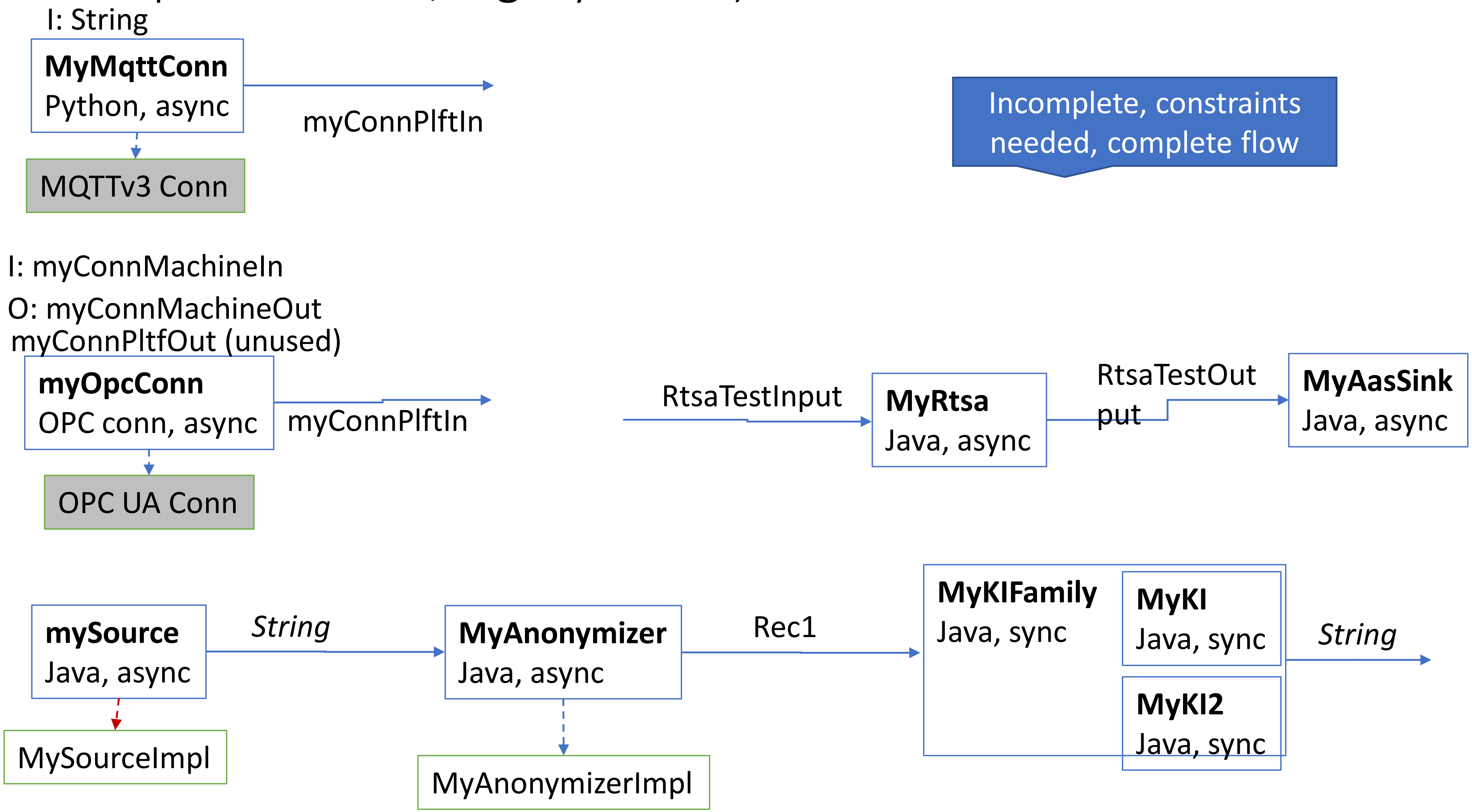
In test.configuration.configuration
de.iip-ecosphere.platform:
apps.ServiceImpl:
iipVer

de.iip_ecosphere.platform.test.apps.
serviceImpl.SimpleSourceKodexImpl

services/KodexPythonService.py

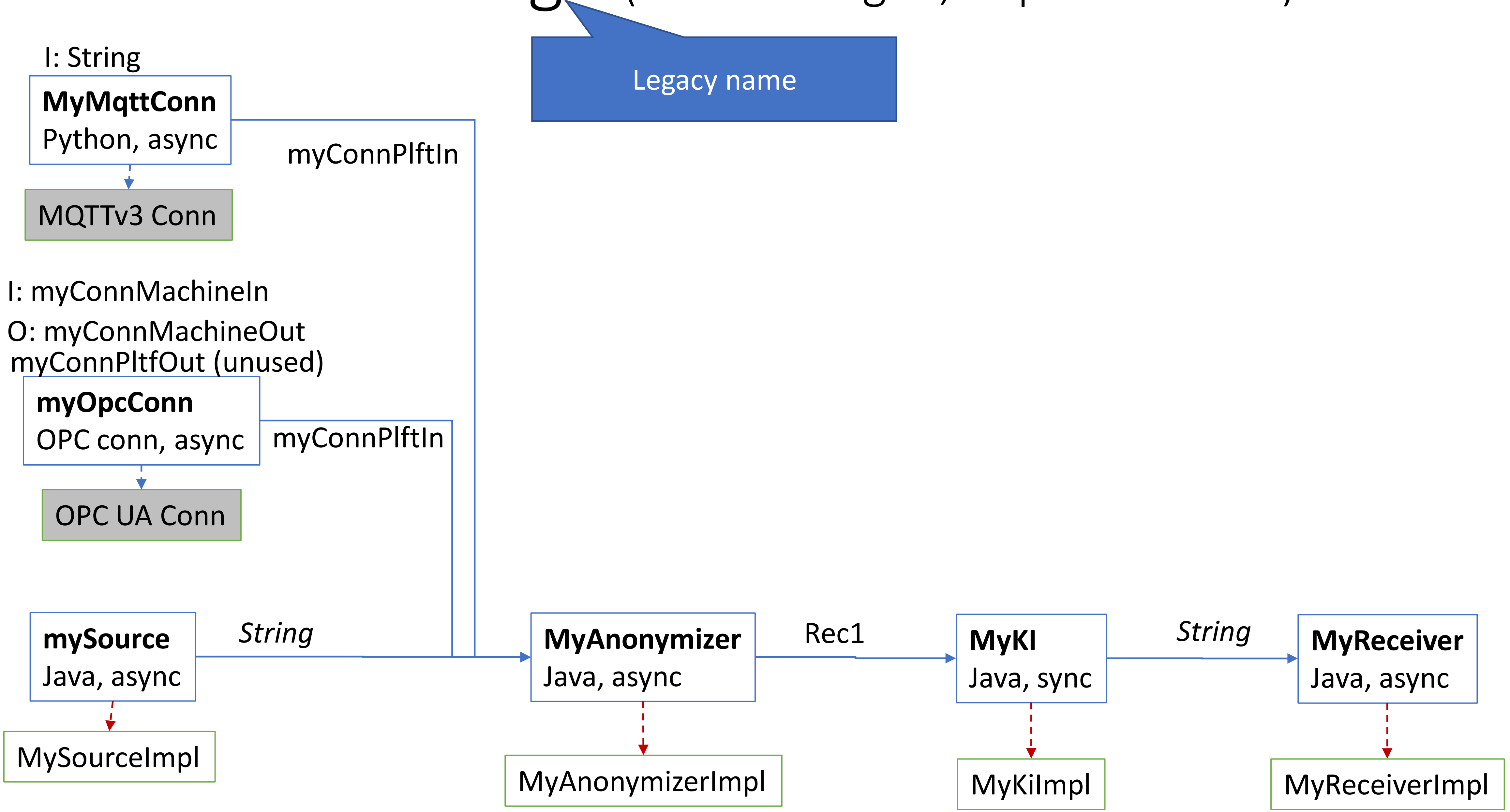
de.iip_ecosphere.platform.test.apps.
serviceImpl.KodexReceiverImpl

SerializerConfig1 (parameter, family, RTSA, impl. irrelevant, legacy name)



Incomplete, constraints needed, complete flow

SerializerConfig1 (connector gen, impl. irrelevant)



Legacy name

I: String

MyMqttConn
Python, async

MQTTv3 Conn

myConnPlftIn

I: myConnMachineIn
O: myConnMachineOut
myConnPltfOut (unused)

myOpcConn
OPC conn, async

myConnPlftIn

OPC UA Conn

mySource
Java, async

String

MySourceImpl

MyAnonymizer
Java, async

Rec1

MyAnonymizerImpl

MyKI
Java, sync

String

MyKiImpl

MyReceiver
Java, async

MyReceiverImpl