Enabling ODBC and JDBC Drivers for Progress OpenEdge Business Logic

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PROGRESS EXCHANGE 2014

Agenda

- What We Have Now
- Limitations
- How to Overcome Limitations – Solution
- Enable ODBC/JDBC Drivers
- Configurations
- Demo
- Q & A

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What We Have Now

OpenEdge has ODBC and JDBC driver

These drivers are part of OpenEdge installation and also we can get these drivers from “SQL-Client Access” installations

These drivers support access to OpenEdge DB i.e. persistent data

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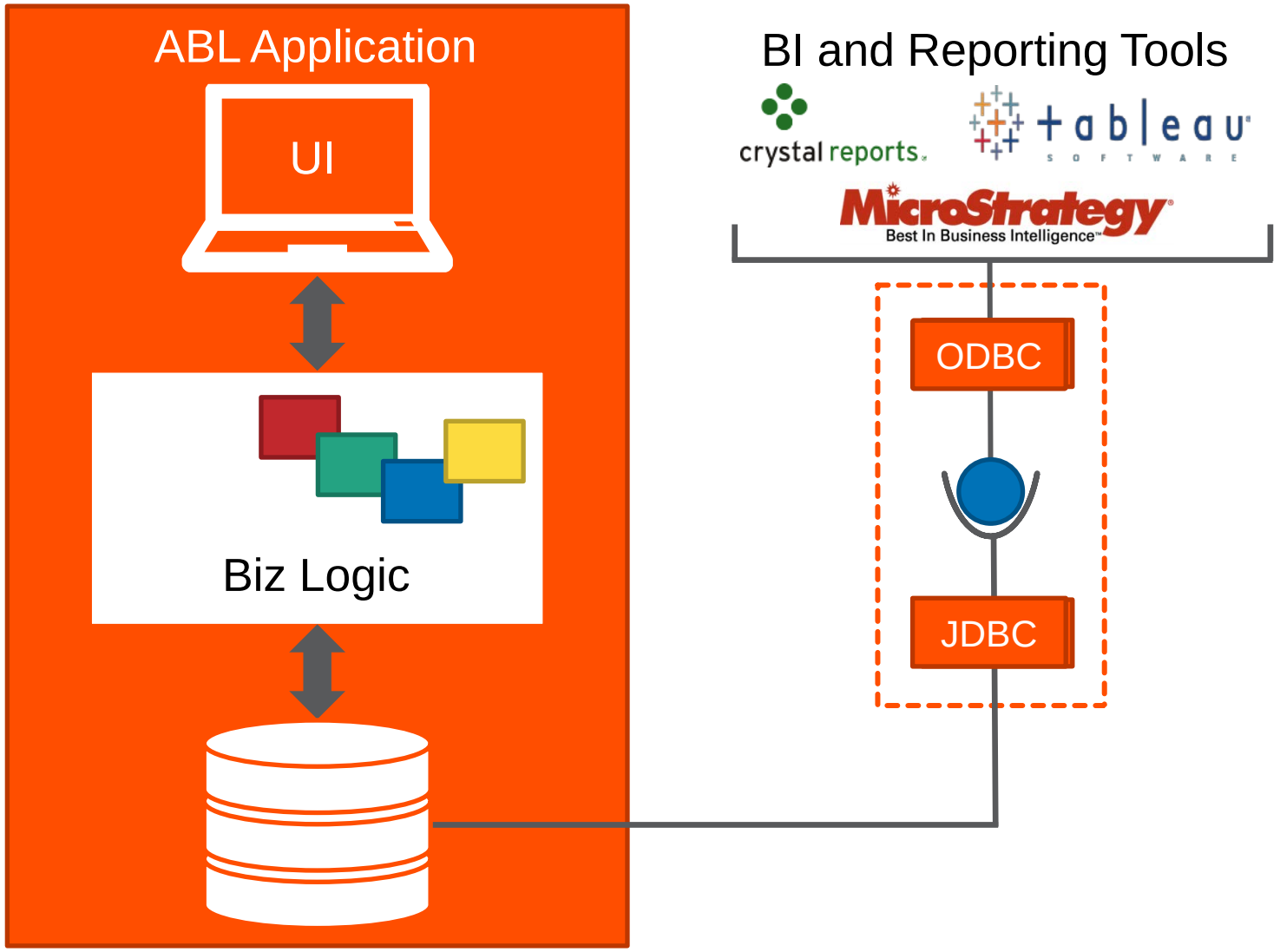
What We Have Now



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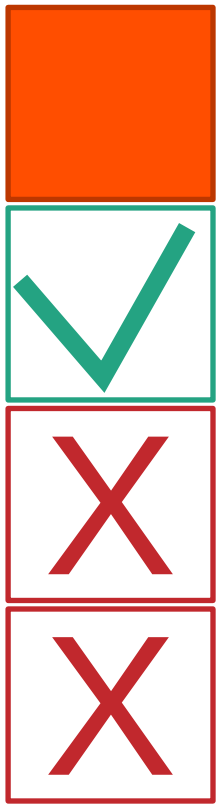
ABL Applications – Procedures



ABL procedures will have temp-table and Prodataset

These object may mapping 1:1 with OpenEdge DB

Two or more tables data into one TempTable/ProDataSet

Business Logic

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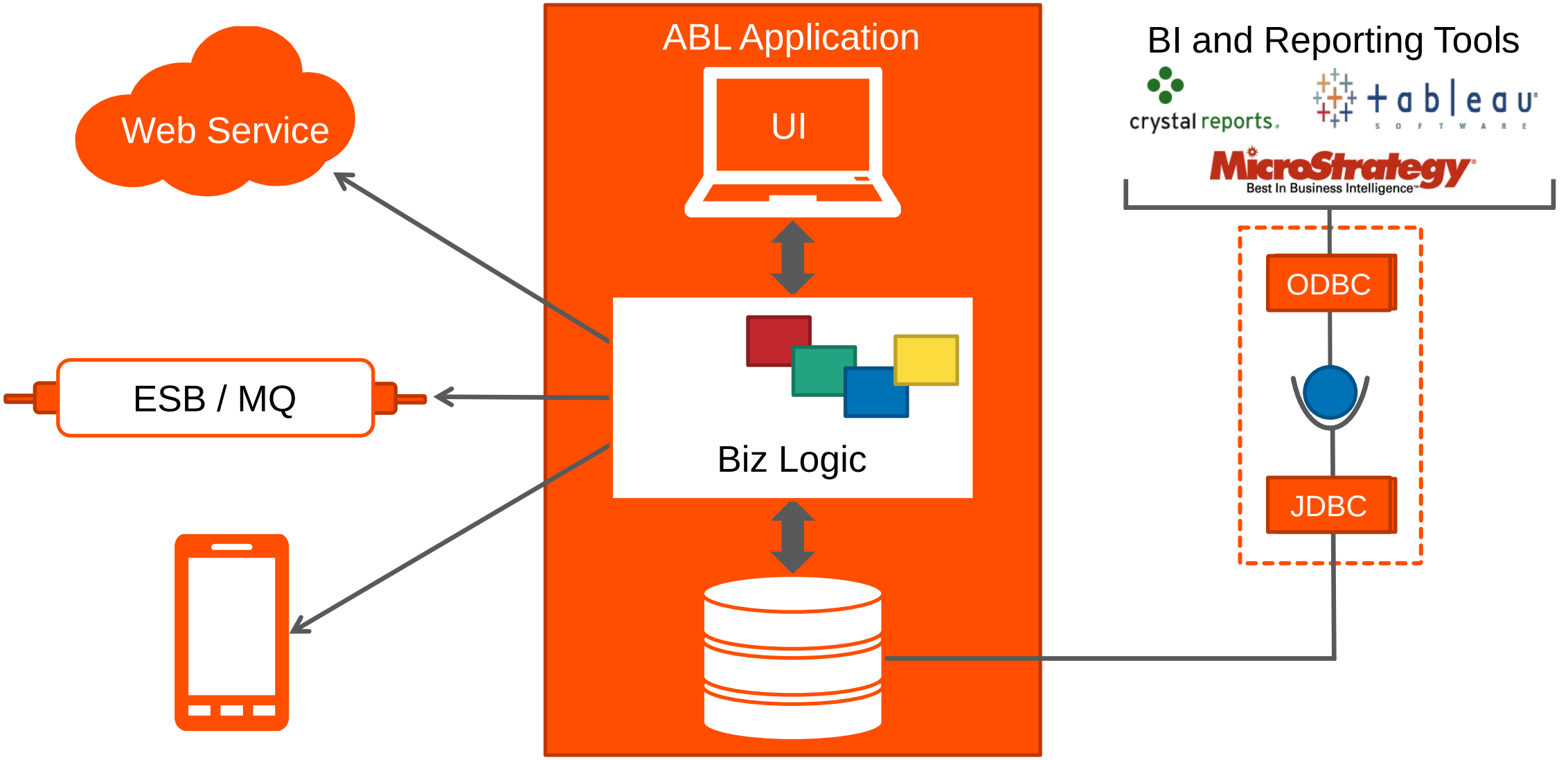
Typical Progress OpenEdge Application



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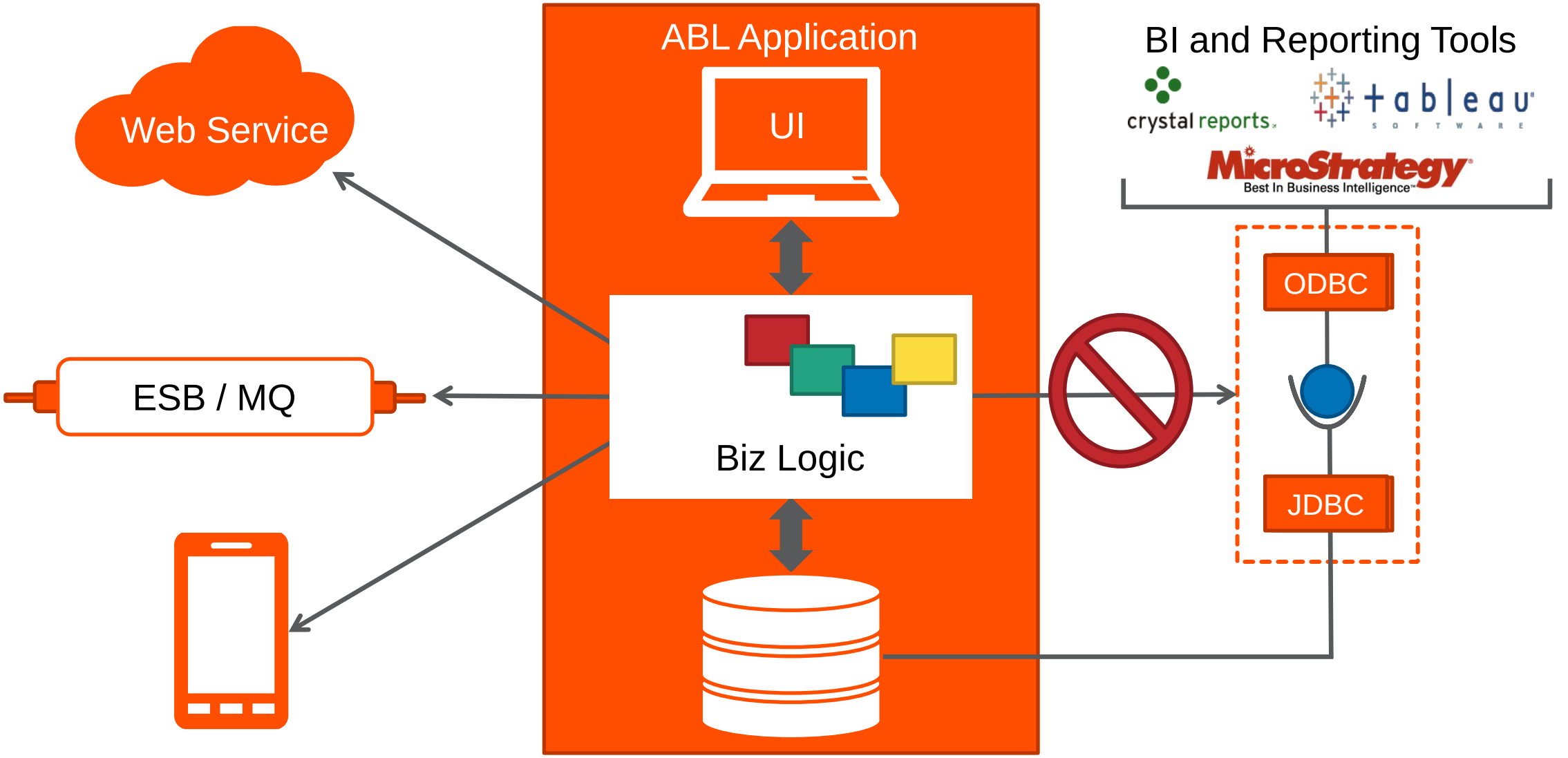
Typical Progress OpenEdge Application



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Why BI Need an Access to ABL Business Logic

1	Real-time data access	
2	Fact based decisions	
3	Combined data from different data sources	
4	Security	Control on data exposure to tools Add one more level of security to access

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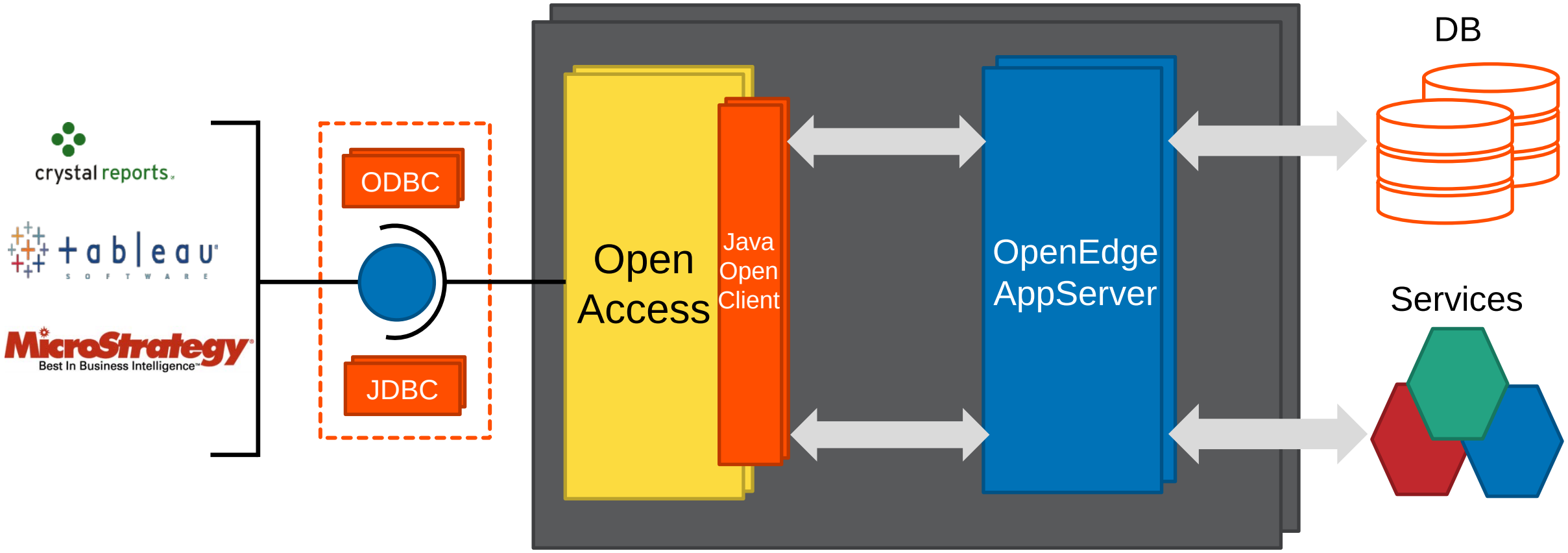
Solution Architecture



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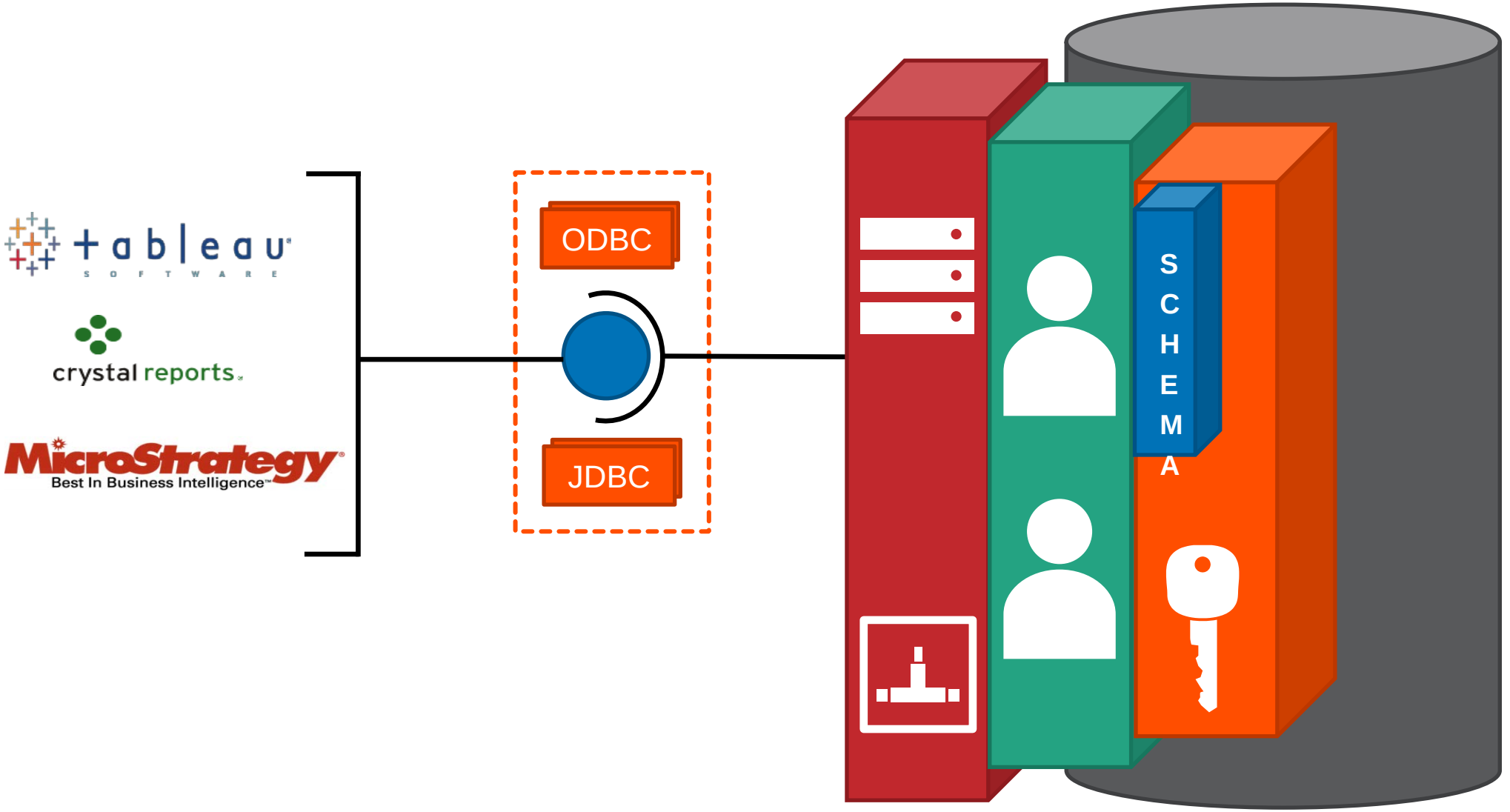
Required to Enable Drivers



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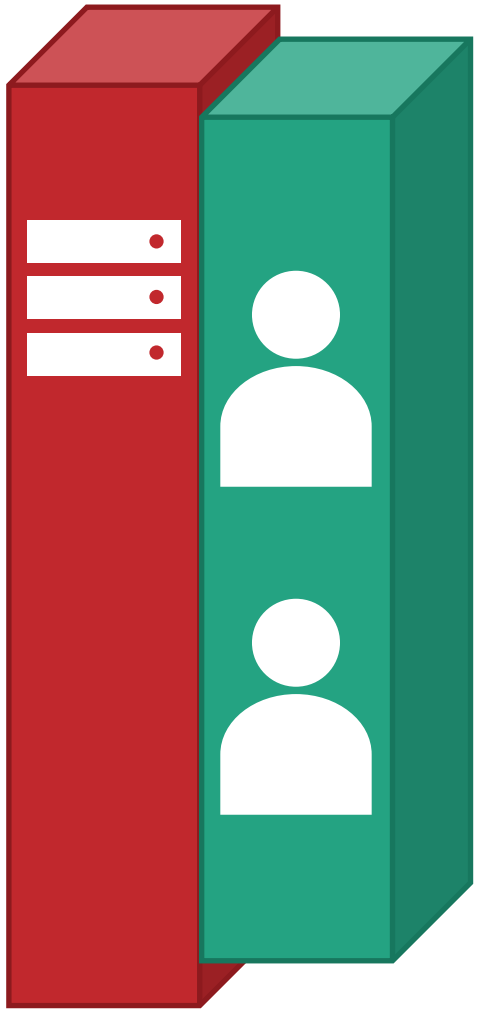
OpenEdge Application Server – Properties

- Broker section in Ubroker properties will have details to know where DB is running and port information
- Appserver is running and port details
- And also we can provide user credentials

```
[UBroker.AS.oabroker]
    appserviceNameList=oabroker
    environment=oabroker
    operatingMode=State-free
    password=
    portNumber=3097
    srvrStartupParam=-db sports2000 -H localhost -S 2929
```



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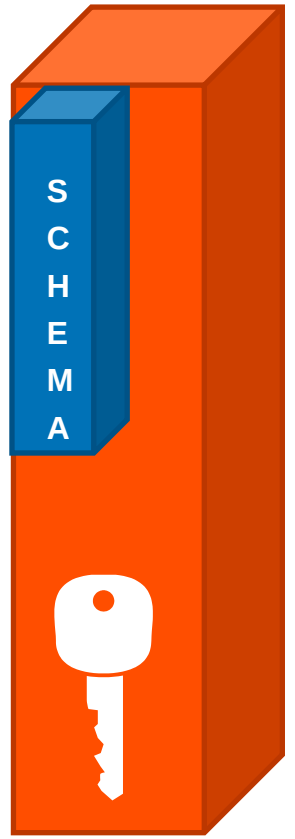
JSDO Catalog

Database schema and Operations (CRUD) on each table

- Expose these information in the form JSDO catalog as JSON file
- JSON file has two section
  - Schema
    - Temptable/ProDataSet name and filed details..
  - Operations
    - CRUD operation support in defined schema.



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JSDO Catalog

```
[    //Applications
  {   //Application
      name
      resources :  [  // Resources
      {  // Resource
          schema [       ]
          operations [       ]
        } ]
 } ]
```


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JSDO Catalog – Schema and Operations

```
"resources": [{
   "name":
   "schema": {
      "properties": {"name": {
         "items": {
          "Column Name": {
             "ablType“,
            },
       }}
}
```

```
"operations": [ {
    "type": "create/read/update/delete",
    "params": [{
        "name":
        "type":
      }]
  },
]
```


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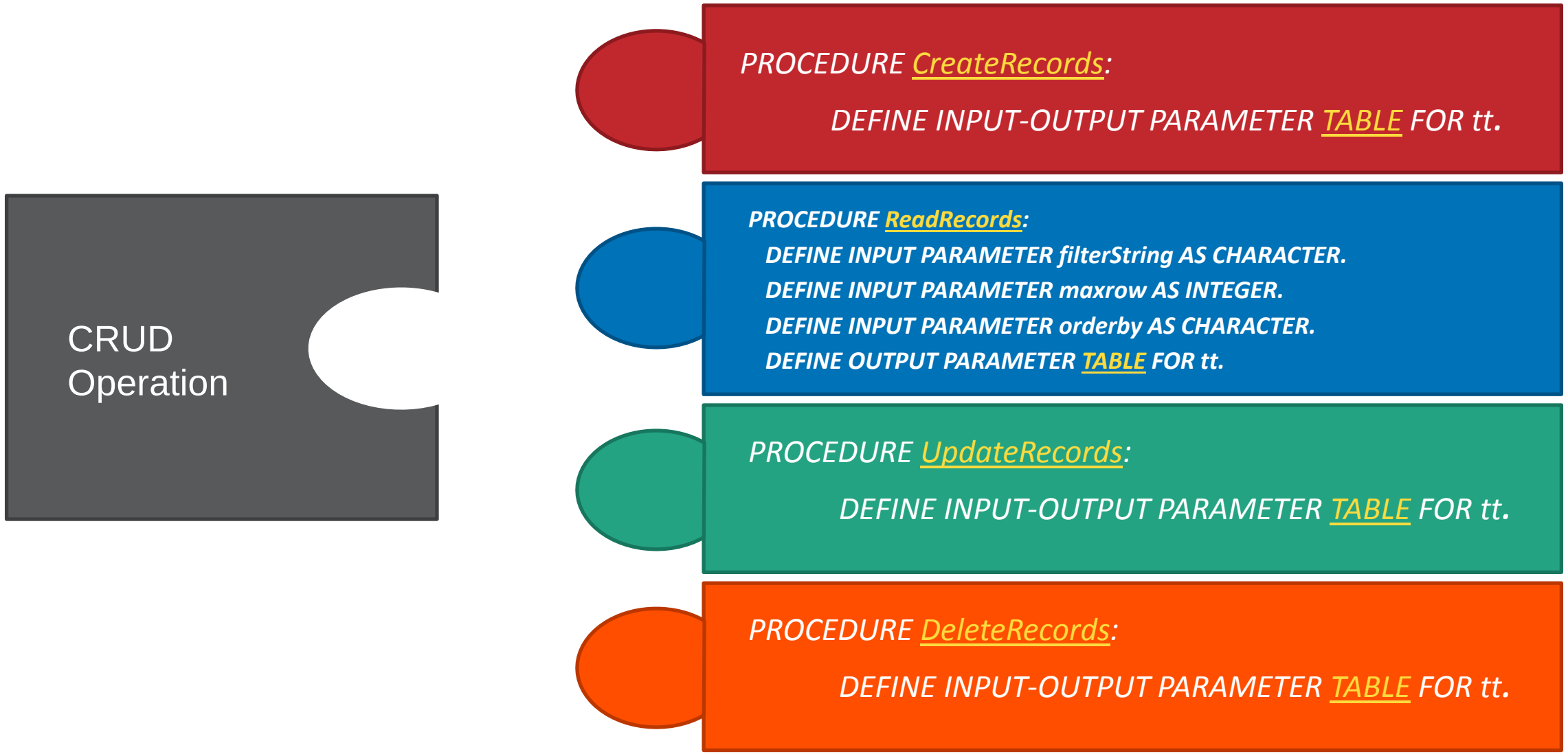
JSDO Operations – Temp-Table



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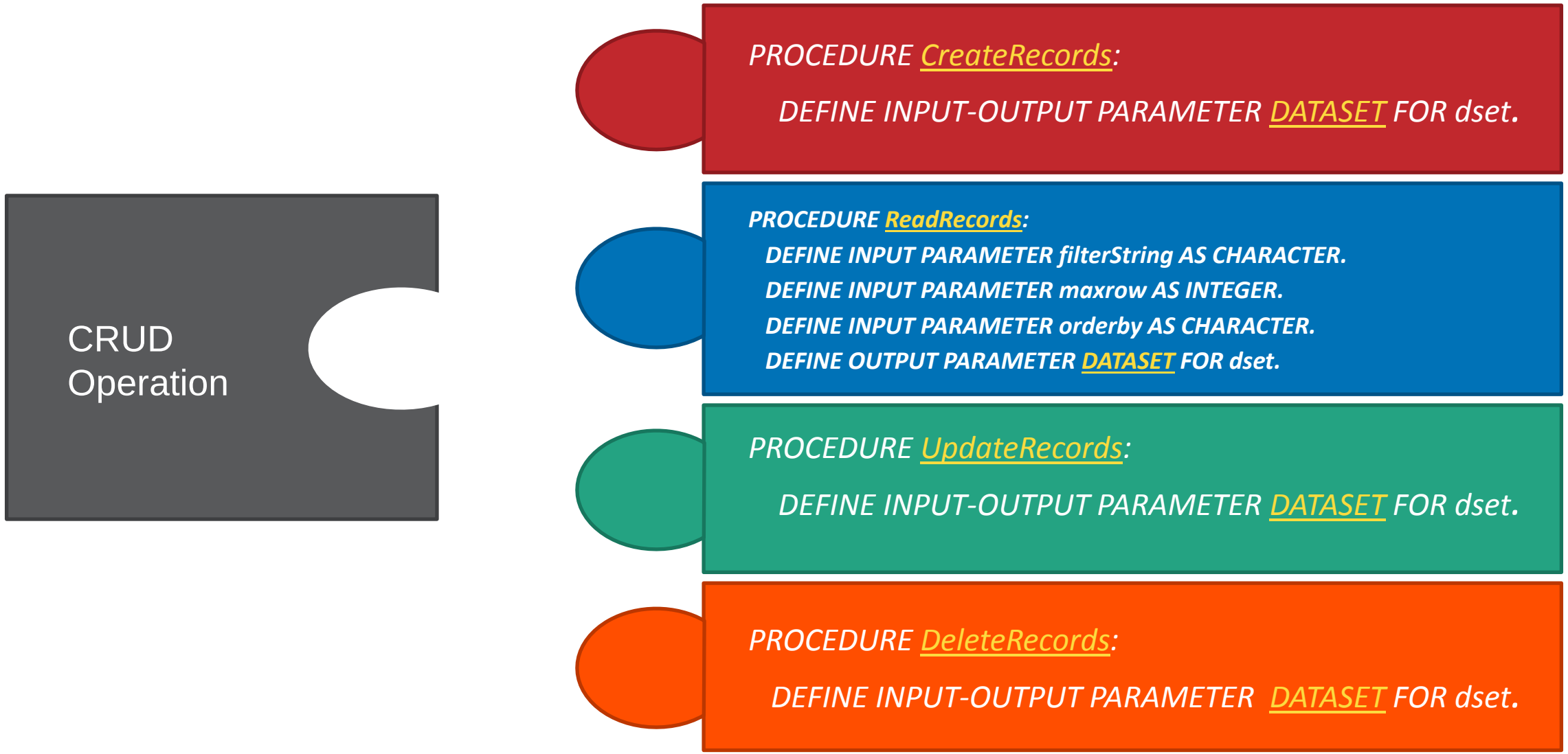
JSDO Operations – ProDataSet



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Configurations

- Application Server

  [UBroker.AS.oabroker]

  appserviceNameList=oabroker

  environment=oabroker

  operatingMode=State-free

  password=

  portNumber=3097

  srvrStartupParam=-db sports2000 -H localhost -S 2929

- OpenAccess
  - Where is OpenAccess broker
    - **AppServerURL=<AppSrvURL>;AppServerInfo=<AppSrvInfo>;SessionModel=<0/1>;**
  - Where is Schema informarion – JSON file
    - **DataSourceIPProperties: Session_Properties=<location of json file>**

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How Many Steps

Map your ABL procedure interfaces to match with prescribed interfaces definitions

Generate JSDO catalog using PDSOE

Configure OpenAccess Server and OpenEdge Application Server

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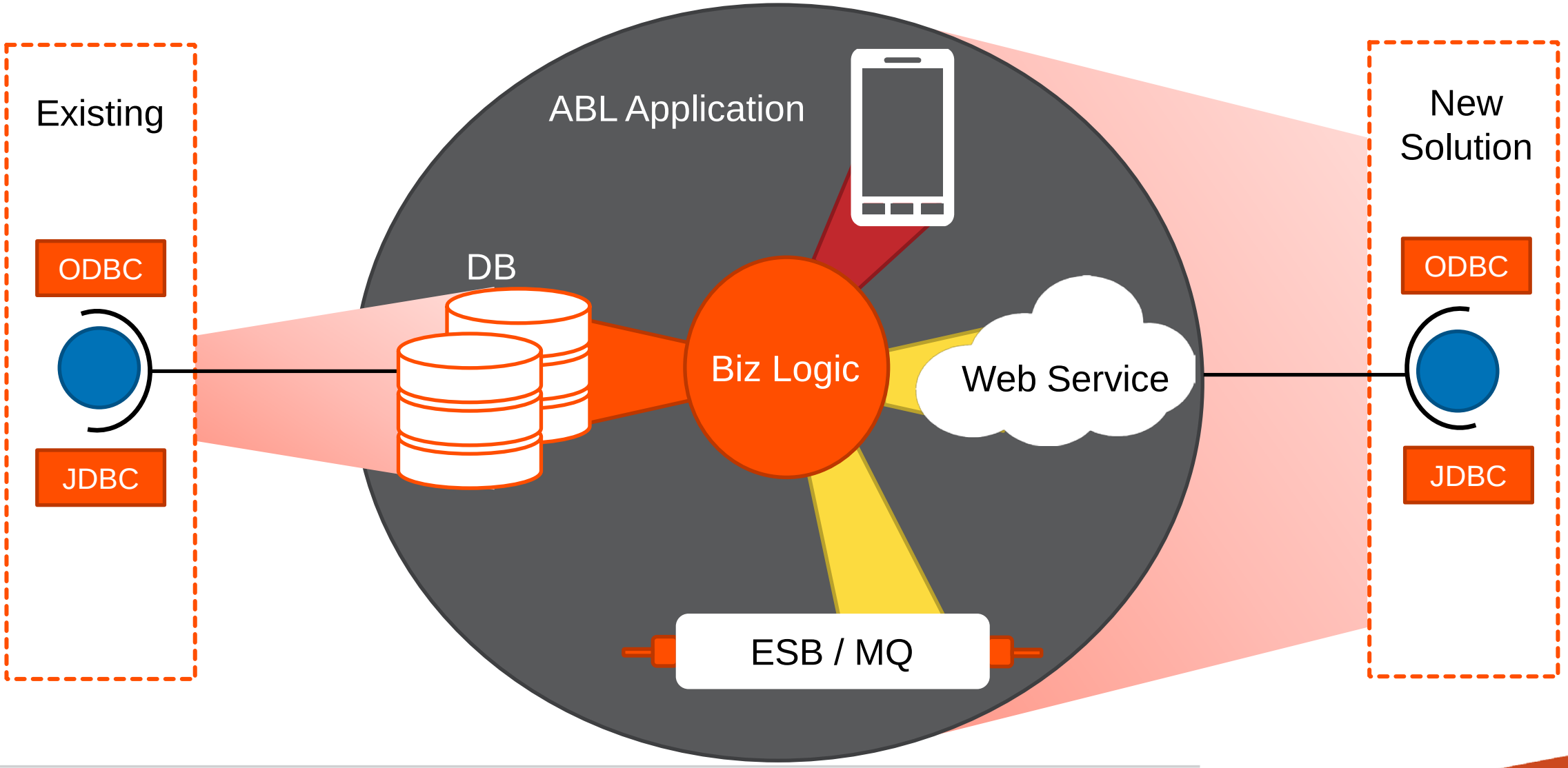
Demo

Full Driver Access



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Summary

1	Support ODBC/JDBC drivers for OpenEdge business logic
2	Simple steps
3	Resources OpenAccess – https://www.progress.com/products/open-access OpenAccess for OpenEdge Application server – ESD

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