

com.fr.decision.fun.TransferDataSetManagerProvider

-
-
-
-
-
-
-
-

10.0TransferDataSetManagerProvider

TransferDataSetManagerProvider.java

```
package com.fr.decision.fun;

import com.fr.base.TableData;
import com.fr.decision.webservice.data.transfer.dataset.TransferDataSetManager;
import com.fr.stable.fun.mark.Mutable;

/**
 * @author lidongy
 * @version 10.0
 * Created by lidongy on 2021/2/25
 */
public interface TransferDataSetManagerProvider<T extends TableData> extends Mutable, TransferDataSetManager<T>
{
    String XML_TAG = "TransferDataSetManagerProvider";

    int CURRENT_LEVEL = 1;
}
```

TransferDataSetManager.java

```
package com.fr.decision.webservice.data.transfer.dataset;

import com.fr.base.TableData;

/**
 * @author lidongy
 * @version 10.0
 * Created by lidongy on 2021/2/25
 */
public interface TransferDataSetManager<T extends TableData> {

    /**
     *
     * @return
     */
    Class<? extends TableData> getDataSetClass();

    /**
     * dataset
     *
     * @param t
     * @return
     */
    String serialize(T t) throws Exception;

    /**
     * dataset
     *
     * @param str
     * @return
     */
    T deserialize(String str) throws Exception;

    /**
     *
     * @param t
     * @return
     */
    String[] getDependencyPaths(T t) throws Exception;
}
```

FR	10.0		

plugin.xml

```
<extra-decision>
    <TransferDataSetManagerProvider class="your class name"/>
</extra-decision>
```

TransferDataSetFactory.java

```
package com.fr.decision.webservice.bean.data.transfer.builder.dataset;

import com.fr.decision.ExtraDecisionClassManager;
import com.fr.decision.fun.TransferDataSetManagerProvider;
import com.fr.decision.webservice.data.transfer.dataset.TransferDataSetManager;
import com.fr.module.tool.ActivatorToolBox;
import com.fr.stable.StringUtils;
import com.fr.stable.collections.CollectionUtils;

import java.util.HashMap;
import java.util.Map;
import java.util.Set;

/**
 * @author lidongy
 * @version 10.0
 * Created by lidongy on 2021/2/25
 */
public class TransferDataSetFactory {
    private static final Map<String, TransferDataSetManager> dataSetManagerMap = ActivatorToolBox.sandbox(new
HashMap<>());

    public static void register(TransferDataSetManager dataSetManager) {
        if (dataSetManagerMap == null) {
            return;
        }
        dataSetManagerMap.put(dataSetManager.getDataSetClass().getName(), dataSetManager);
    }

    public static void reset() {
        dataSetManagerMap.clear();
    }

    public static TransferDataSetManager getDataSetManager(String dataSetClassName) throws Exception {
        TransferDataSetManager dataSetManager = dataSetManagerMap.get(dataSetClassName);
        if (dataSetManager != null) {
            return dataSetManager;
        }
        Set<TransferDataSetManagerProvider> managerProviderSet = ExtraDecisionClassManager.getInstance().
getArray(TransferDataSetManagerProvider.XML_TAG);
        if (!CollectionUtils.isEmpty(managerProviderSet)) {
            for (TransferDataSetManagerProvider provider : managerProviderSet) {
                if (StringUtils.equals(provider.getDataSetClass().getName(), dataSetClassName)) {
                    return provider;
                }
            }
        }

        throw new RuntimeException("Transfer is not supported for this data set.");
    }
}
```

TransferDataSetDataBuilder.java

```
package com.fr.decision.webservice.bean.data.transfer.builder.impl;

...

/**
 * @author lidongy
 * @version 10.0
 * Created by lidongy on 2021/1/14
 */
public class TransferDataSetDataBuilder extends AbstractTransferDataBuilder {
```

```

private static final String EXPORT_PATH = "dataSet";

@Override
public int getEntityType() {
    return DataSetAuthorityControllerImpl.AUTH_TYPE;
}

@Override
public TransferExportEntityDataBean exportEntityData(String entityId) throws Exception {
    TransferExportEntityDataBean result = new TransferExportEntityDataBean();
    result.setId(entityId);
    return result;
}

@Override
public TransferExportEntityDataExtraPropsBean exportDataExtraProps(String entityId) throws Exception {
    TransferDataSetExtraPropsBean result = new TransferDataSetExtraPropsBean();

    TableData tableData = TableDataConfig.getInstance().getTableData(entityId);
    String className = tableData.getClass().getName();
    TransferDataSetManager dataSetManager = TransferDataSetFactory.getDataSetManager(className);
    result.setDataSetClassName(className);
    result.setDataSetInfo(dataSetManager.serialize(tableData));
    return result;
}

@Override
public List<TransferEntityDependencyBean> exportEntityDependencies(String entityId) throws Exception {
    TableData tableData = TableDataConfig.getInstance().getTableData(entityId);
    String className = tableData.getClass().getName();
    TransferDataSetManager dataSetManager = TransferDataSetFactory.getDataSetManager(className);

    List<TransferEntityDependencyBean> dependencyBeanList = new ArrayList<>();
    for (String path : dataSetManager.getDependencyPaths(tableData)) {
        TransferEntityDependencyBean dependencyBean = new TransferEntityDependencyBean();
        dependencyBean.setOriginPath(path);
        dependencyBean.setExportPath(StableUtils.pathJoin(TransferDataFactory.EXPORT_TEMP_DIR, EXPORT_PATH,
new File(path).getName()));
        dependencyBeanList.add(dependencyBean);
    }
    return dependencyBeanList;
}

@Override
public TransferImportDisplayDataBean buildImportData(TransferExportDataBean transferExportDataBean) throws
Exception {
    TransferExportEntityDataBean entityDataBean = transferExportDataBean.getData();
    TransferImportDisplayDataBean displayDataBean = new TransferImportDisplayDataBean
(DataSetAuthorityControllerImpl.AUTH_TYPE);

    //
    String dataSetName = entityDataBean.getId();
    TransferImportDataValidBean entityFullPath = new TransferImportDataValidBean();
    entityFullPath.setImportDataId(dataSetName);
    entityFullPath.setImportDataAttr(dataSetName);
    entityFullPath.setDataAttrValid(TableDataConfig.getInstance().getTableData(dataSetName) == null);
    displayDataBean.setEntityFullPath(entityFullPath);

    //
    List<TransferEntityDependencyBean> dependencyBeanList = transferExportDataBean.getDependencies();
    List<TransferImportDataValidBean> originPathList = new ArrayList<>();
    for (TransferEntityDependencyBean dependencyBean : dependencyBeanList) {
        String originPath = dependencyBean.getOriginPath();
        if (StringUtil.isEmpty(originPath)) {
            originPathList.add(new TransferImportDataValidBean(originPath, StringUtil.EMPTY, !
ResourceIOUtils.exist(originPath)));
        }
    }
}

```

```

//originPathListnull
if (originPathList.size() != 0) {
    displayDataBean.setDependencyOriginPath(originPathList);
}
displayDataBean.setExportData(transferExportDataBean);
return displayDataBean;
}

@Override
public List<TransferImportResultBean> importData(List<TransferImportEntityBean> importEntities) {
    List<TransferImportResultBean> importResultBeanList = new ArrayList<>();
    for (TransferImportEntityBean importEntityBean : importEntities) {
        TransferDataSetExtraPropsBean dataSetExtraPropsBean = (TransferDataSetExtraPropsBean)
importEntityBean.getEntityDataExtraPropsBean();
        String dataSetName = importEntityBean.getEntityId();

        TransferImportResultBean resultBean = new TransferImportResultBean(importEntityBean.getImportId(),
DataSetAuthorityControllerImpl.AUTH_TYPE);
        resultBean.setFullPath(dataSetName);
        //
        List<TransferImportDataValidBean> originPath = importEntityBean.getDependencyOriginPath();
        if (!CollectionUtils.isEmpty(originPath)) {
            List<String> dependencyPath = new ArrayList<>();
            dependencyPath.add(originPath.get(0).getImportDataAttr());
            resultBean.setDependencyPath(dependencyPath);
        }

        try {
            String dataSetInfo = dataSetExtraPropsBean.getDataSetInfo();
            String className = dataSetExtraPropsBean.getDataSetClassName();

            TransferDataSetManager dataSetManager = TransferDataSetFactory.getDataSetManager(className);
            TableData tableData = dataSetManager.deserialize(dataSetInfo);

            if (importEntityBean.getEntityFullPath().isDataAttrValid()) {
                Configurations.update(new WorkerAdaptor(TableDataConfig.class) {
                    @Override
                    public void run() {
                        TableDataConfig.getInstance().addTableData(dataSetName, tableData);
                    }
                });
            } else {
                Configurations.update(new WorkerAdaptor(TableDataConfig.class) {
                    @Override
                    public void run() {
                        TableDataConfig.getInstance().removeTableData(dataSetName);
                        TableDataConfig.getInstance().addTableData(dataSetName, tableData);
                    }
                });
            }

            //
            List<TransferEntityDependencyBean> dependencyBeanList = importEntityBean.
getEntityDependencyBeans();
            for (TransferEntityDependencyBean dependencyBean : dependencyBeanList) {
                File exportFile = new File(StableUtils.pathJoin(WorkContext.getCurrent().getPath(),
TransferDataFactory.IMPORT_TEMP_DIR, dependencyBean.getExportPath()));
                TransferDataFactory.importDependencyFile(dependencyBean.getOriginPath(), exportFile);
            }

            resultBean.setImportResult(true);
        } catch (Exception e) {
            FineLoggerFactory.getLogger().error(e, e.getMessage());
            resultBean.setImportMsg(WebServiceUtils.getStackTraceInfo(e));
            resultBean.setImportResult(false);
        }
        importResultBeanList.add(resultBean);
    }
    return importResultBeanList;
}

```

```
}
```

readXMLwriteXML

```
GeneralXMLTools.writeXMLableAsString(ds);  
GeneralXMLTools.readStringAsXMLable(config,ds);
```

getDependencyPaths

[demodemo-transfer-data-set-manager-provider](#)