

APIs, TAFJ and Complex Classes

Transact Extensibility for Java (English) 2020 Q1



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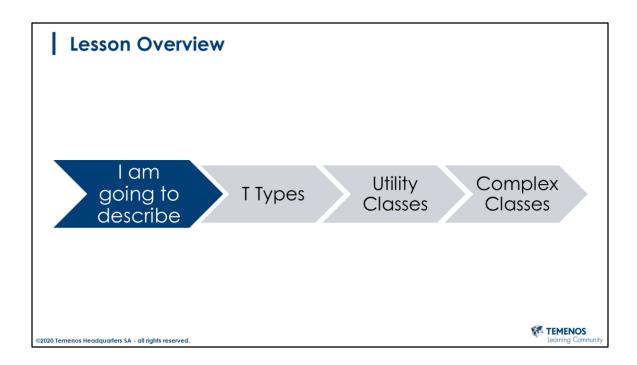
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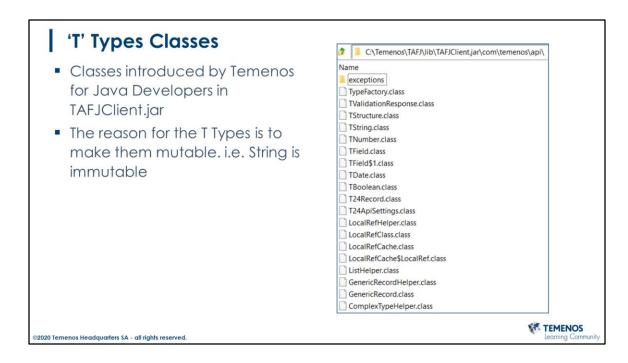
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'T' types are new classes introduced by Temenos for Java developers. These are available under TAFJClient.jar

This JAR can be found under TAFJ/Lib folder

The classes in the jar resides in TAFJ Framework Layer.

The reason for the T Types is to make them mutable. i.e. String is immutable

TStructure

- The TStructure is a generic container type used for record or complex type parameters.
- TStructure is not used to access data it is only used to construct instances of records or complex types
- Maps Transact data to java object

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TField

- Tfield offers getters and setters for Enrichment, Error and Field Values
- Every field in a record is an internal type TField (Not string by default)

TField has getter and setter methods for field values, error as well as enrichments.

TField f1 = fr.getDebitCurrency(); \rightarrow get the value from field DEBIT.CURRENCY of FUNDS.TRANSFER.

Setter can be used to set any value.

From the above e.g. f2.setError();

Setting the Error message if DEBIT.CURRENCY and CREDIT.CURRENCY are not equal.

In above e.g. we are using TField to get the values of the fields from FUNDS.TRANSFER record. If debit and credit currency are not the same, error is set and response is returned using getValidationResponse();

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TEMENOS

The system.DataAccess class is a utility class to read, select and access data in T24. The api.records package is used to hold records from T24 applications

T24Context

- The T24Context encapsulates the current session
- All Hook classes are instances of T24Context
- API classes must be constructed using a T24Context ("this") to ensure that any callbacks are made to the current session

DataAccess da = new DataAccess(this);

 TAFJClient.jar is required in JAVA_PROJECT to establish the connection.(available in TAFJ_HOME/lib).

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TransactionData

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- Package: com.temenos.t24.api.complex.eb.servicehook
- This class packages data which is required to post the transaction request in asynchronous mode

```
TransactionData txnData = new TransactionData();
txnData.setFunction("INPUT");
txnData.setNumberOfAuthoriser("0");
txnData.setSourceId("BULK.OFS");
txnData.setTransactionId(accNum);
txnData.setVersionId("ACCOUNT, JAVA");
currentRecords.add(accRecNew.toStructure());
transactionData.add(txnData);
** TEMENOS
```

This class packages data which is required to post the transaction request in asynchronous mode

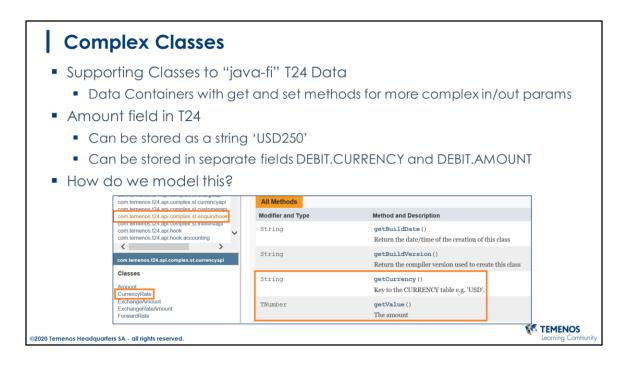
SynchronousTransactionData Package: com.temenos.t24.api.complex.eb.servicehook This class packages data which is required to post the transaction request in synchronous mode SynchronousTransactionData sTxnData = new SynchronousTransactionData(); sTxnData.setVersionId("ACCOUNT, JAVA"); sTxnData.setFunction("INPUT"); sTxnData.setFunction("INPUT"); sTxnData.setTransactionId(accNum); sTxnData.setSourceId("BULK.OFS"); sTxnData.setResponseId(accNum); transactionData.add(sTxnData);

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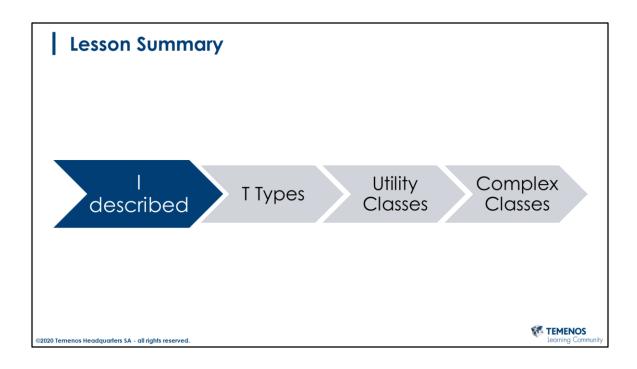
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Represents objects to be used for selection criteria in enquiry In T24 terms, this is from the ENQ.DATA variable used in ENQUIRY BUILD.ROUTINEs in T24.



A Complex class is a convenient way of **grouping** several pieces of related information together. For e.g amount is represented as USD250 – consists of a Currency as well as a value.

For e.g. the values(field name, operand, value) in a dynamic selection box of an ENQUIRY is a set of related data (but not a record) and a complex class is used to hold the values. com.temenos.t24.api.complex.eb.enquiryhook.FilterCriteria





thank.you tlc.temenos.com

