



# | Introduction

Transact Extensibility for Java (English)

2020 Q1



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## | Lesson Overview



## | Your Course » Objective and Learning Outcomes

This course will allow you to:

- Customize Transact Functionality using Java with a simple to use API library of T24 Transact supported function

In particular you will be able to:

- Understand the benefits and usage scenarios of Java Framework
- Understand how to write Java Class for different Exit points
- Debug the Java Program in Design Studio
- Create and Execute Version, Enquiry, Service Hooks
- Understand how to handle Local reference field in Java
- Learn how to update core table from java program

## | Your Course » Timetable



### Day 1

- Introduction
- Technical Implementation
- Setup Design Studio
- Version Hooks
- Debugging Java Program



### Day 2

- Enquiry Hooks
- NOFILE Enquiry
- Service Hooks
- Local Application Creation and API Generation



## | Overview

- The Overall vision is to provide ability to extend the capability of Temenos Products in a productive development environment without compromising quality, Particularly upgradability, performance and security of core software
- The new development framework allows Transact functionality to be customized using Java with a simple to use API library of Transact Supported functions
- This Library governs the functions/updates that are exposed and allowed to be performed

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## | Why we need T24 Extensibility for Java?

- Scalability and Ownership
- Simplify the Transact APIs
- Governance

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By opening the extension of T24 to a much more mainstream skillset such as Java and removing the need to understand T24 context (COMMONs) in detail and its impact on the workflow, partners and customers are enabled to easily carry out their own L3 customizations

- Scalability and ownership
  - T24 extensibility in Java will lead to easy scalability of core banking as there are more Java developers than JBC developers. The interactions with core banking are simplified as the developer can use published APIs with defined parameters to get the task done
  - Simplify the T24 APIs - . There is no need to know about core banking specific terminologies like STORE.END.ERROR or COMMON variables. Banks can use their own developers
- Governance
  - We can use the framework to protect T24. for e.g. prevent a select on a large table that can lead to performance issue for all users
  - Governance is creating a framework to enable Java implementations for L3 that protects the T24 core so that a developer implementing a hook can only access the information passed via the hooks parameters or via the



supplied L3 Java APIs. On returning from the Java hook, the system is updated in the way that is intended omitting any accidental or undesired impacts on the system.

## | Benefits of new development framework

- Allows Support of Client specific developments fully in Java
- Hides the complexity of T24 Transact from the developer
- Reduce the Cost and difficulty of on premise upgrades which have larger number of local developments

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## | Transact extensibility typical use cases

- Transaction level record and field validations
- Transaction ID Level Validation
- Auto populating fields
- Raise Error or Overrides
- Update user defined fields or Applications
- User defined services or COB Jobs
- Reporting Enquiries
- External Calls

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It has been available since R19 AMR (TAFJ). For new customers on R19, L3 coding will be enabled in Java only. Customers who wish to perform the upgrade can develop L3 code both in jBC and Java.

Java extensibility can be used for

- Updating User Defined Tables.
- Validating transaction IDs entered.
- Auto populating fields.
- Cross-validating records and fields.
- Altering and/or defaulting other field values in the record based on a field value.
- Updating local reference fields.
- Raising errors / overrides.
- Defining services / COB jobs.
- Combining data from different applications for a report

## | Lesson Summary





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