

SUPPORT CONNECT KNOWLEDGE SERIES

Augment Your Problem-solving Capability

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Welcome to the Finacle Global Support fortnightly knowledge bulletin! We're here to offer solutions for common challenges, share valuable tips, provide knowledge bytes, and keep you updated. Each edition is meticulously curated to ensure we share best practices and known resolutions. In this issue, you'll find the following articles:

- **Checksum Validation in Finacle Payments**
- **FININT Connection Pooling**

So, let's start reading!

Checksum Validation in Finacle Payments

Product: Finacle Payments

To prevent duplicate uploads, Finacle Payments incorporates a robust **checksum validation mechanism** during payment file creation and processing. Every uploaded file undergoes checksum computation, and the resulting values are stored in the product tables **PY_FHD** and **PY_FRT** for reference.

Checksum validation is governed by the **COMT parameter FP_PM_FILE_UPL_CHKSUM_REQD**.

When set to **Y**, the system validates each incoming file against previously uploaded files

If a matching checksum is found within the validation window, the upload is rejected with the message: **"Duplicate File Received: Checksum Validation Failed"**

Configurable Validation Window

In some business scenarios, files with identical content may be legitimately reuploaded after an extended period. To support such cases, Finacle allows a configurable validation duration through an additional **COMT parameter FP_PM_FILE_UPL_CHKSUM_DAYS**.

This parameter defines the **number of days** for which checksum comparison should be enforced.

Example:

A file uploaded on *01-Jan-2025* and another with the same checksum on *30-Jun-2025* would normally be detected as duplicates.

However, if **FP_PM_FILE_UPL_CHKSUM_DAYS** = 30, the system checks only the past 30 days—allowing the second file to be processed.

FININT Connection Pooling

Product: Finacle Integrator | Version: 10.2.x and above

FININT connection pooling plays a critical role in FI channel requests, enabling efficient communication between the J2EE layer and Finacle backend services. FI uses socket-based connections to interact with C++ application server components such as finlistval, coresession and cohttp.

The parameters described below controls how many connections of pool instances FI can maintain while processing incoming requests. For optimal performance, these should be configured in proportion to the number of lisrvr processes (finlistval and coresession services) or cohttp processes(cohttp service) available on the Finacle application server.

Parameters are configured in: **common/config/finint/WEB-INF/properties/application.properties**

FININT → finlistval & coresession Services

finMinPoolInstances:

Defines the minimum number of finlistval pool instances created at server startup.

finMaxPoolInstances:

Defines the maximum number of finlistval pool instances that can be created when the minimum pool is fully utilized. If all instances are busy, new requests wait for a free instance. If no instance becomes available within the allowed iterations, FI responds with "**Service Not Available**".

coresessMinPoolInstances:

Specifies the minimum number of coresession pool instances created during startup.

coresessMaxPoolInstances:

Specifies the maximum number of coresession pool instances that can be created under load. When all instances are busy, new requests wait in a queue. If connections remain unavailable after retries, FI returns "**Service Not Available**".

For cohttp-based connectivity, the parameter **MAX_CONNECTION_POOL** controls the maximum number of active connections available for cohttp service communication.

Connection Pool Usage Logging:

Connection pool usage logs can be enabled through the following parameters in application.properties:

poolLogReqd = true

ONS_LOG_DIR=/common/log/finint/fcoremb

In FIP (10.2.25 and 11.x) logging requires **LOG4J_ENABLED = 'Y'** to be set in the FIP configuration table (fimaster.fi_config_data)

The revamped Finacle Support Center is now accessible through these URLs. Bookmark them for easy access and login!

- **Customer Access and Login:** <https://support.finacle.com>
- **Finacle Knowledge Center:** <https://docs.finacle.com/en/signin>

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