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WHAT AND WHY

WHAT IS IFS AURENA NATIVE

- IFS Aurena Native is
- The app version of IFS Aurena.
- Targeting mobile devices
- Built for Android, iOS and Windows platforms.
- Delivered as IFS Apps through App Stores
- Google Play
- App Store (Apple)
- Microsoft Store



WHAT AND WHY

WHAT IS IFS AURENA NATIVE

- IFS Aurena Native unique features
- Offline support
- Mobility built-in
- Transaction handling
- Delta synchronization
- Error handling
- Background synchronization
- Push synchronization
- Device capabilities such as
- phone, camera, email, barcode, map features, GPS locations.



WHAT AND WHY WHY IFS AURENA NATIVE

- New user experience IFS Aurena Native and IFS Aurena, serving all user groups.
- Modernizing architecture evolution in the form of declarative development.
- More similar Look and Feel between IFS Aurena Native and IFS Aurena.
- Continuous updates (through this declarative approach).



WHAT AND WHY SUMMARY

User Benefit

Business Benefit

Modern
Architecture &
Continouos
Updates

Latest Features & User Experience

Customer Satisfaction

Responsive Design

User can use multiple devices on different OS platforms

Productivity

Native Platform Based

Builds on user's knowledge of Native Platforms

New employees productive sooner





USAGE OVERVIEW

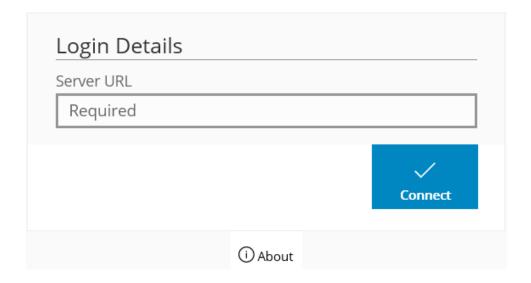
- Connection
- Pin Code
- User Credentials
- Re-Login



USAGE

CONNECTION

- Unique screen for IFS Aurena Native app.
- Enter server address for Server-URL.
- Connect button

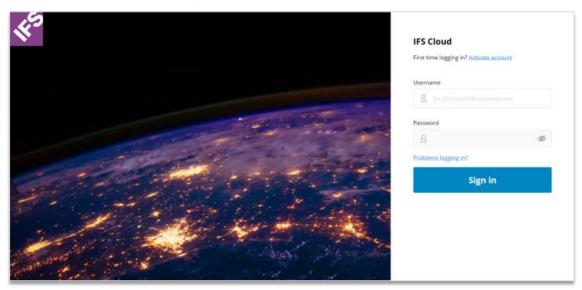


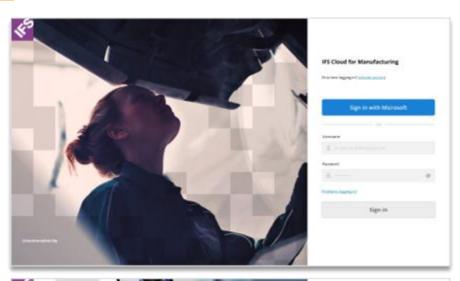


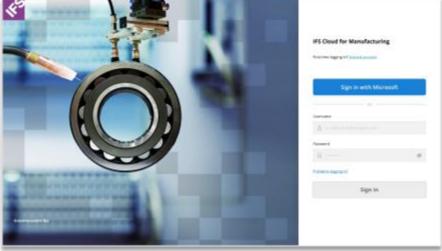
USAGE

USER CREDENTIALS

- Same as for IFS Aurena.
- Aligned with IFS brand, fresh impression.
- New server-side improvements, including 3rd party. authentication.
- Login and welcome per solution set.



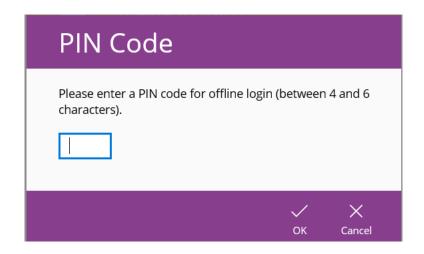






USAGE PIN CODE

- Pin code is only available if it has been turned on in Application Parameters in IFS Cloud.
- Pin code is used as an additional security measure to encrypt the local database on the device.

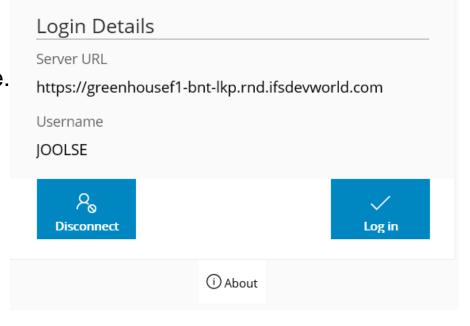






USAGE RE-LOGIN

- Re-login screen is shown when you have logged out from an IFS Aurena Native app.
- You might need to enter the login credentials again.
- If pin code is turned on you will need to enter that in the re-login page.
- Disconnect button
- Clears any user information on the app locally in the device.
- Send a call to IFS Cloud to de-active the session.
- Delete the local database.
- Login button





USAGE DEMO



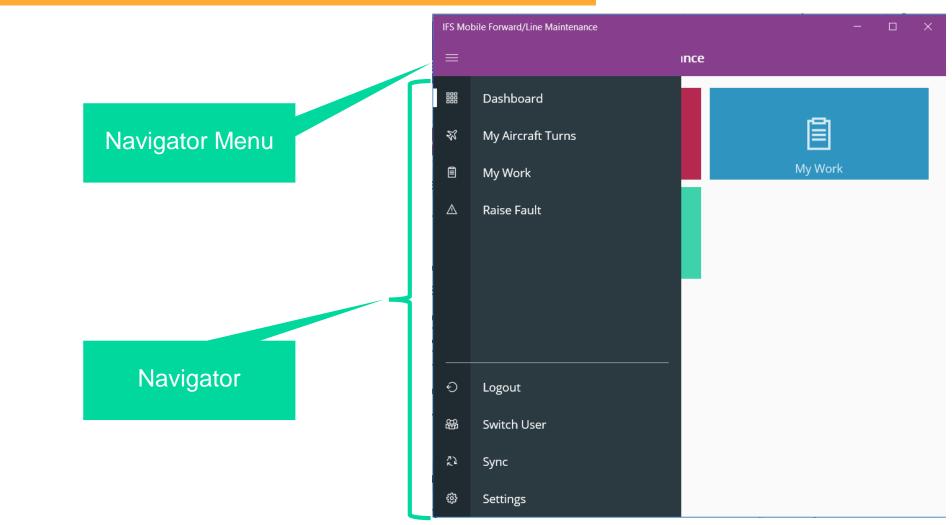


OVERVIEW

- Navigation Menu
- Home page
- Breadcrumb
- Header and Group Header
- Actions
- Workflow Bar
- Command buttons
- Sort and Search



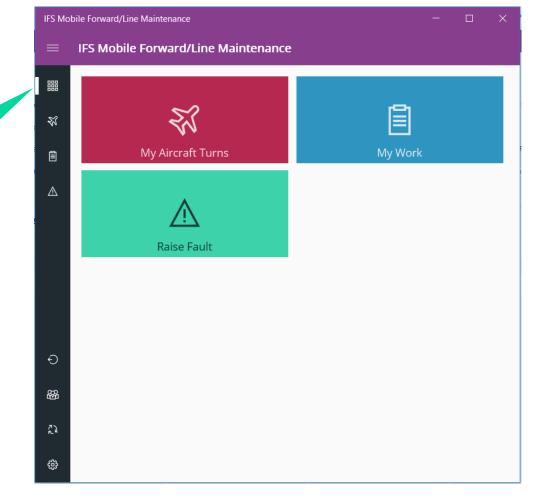
NAVIGATION MENU





HOME SCREEN

Home Screen

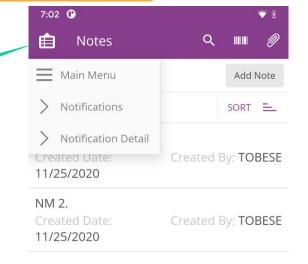






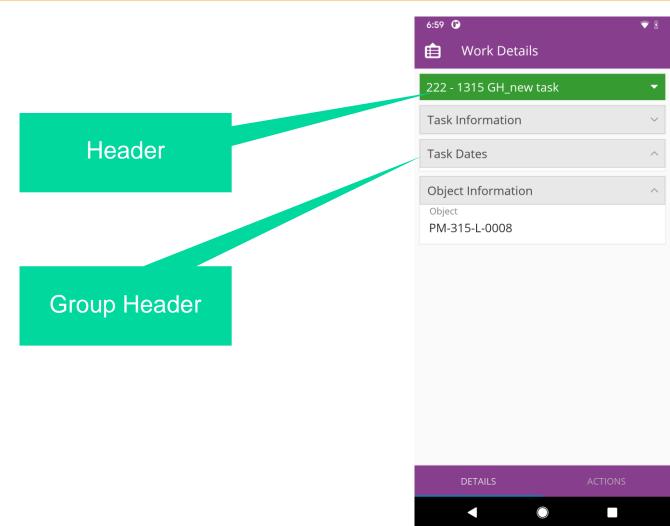
BREADCRUMB

Breadcrumb



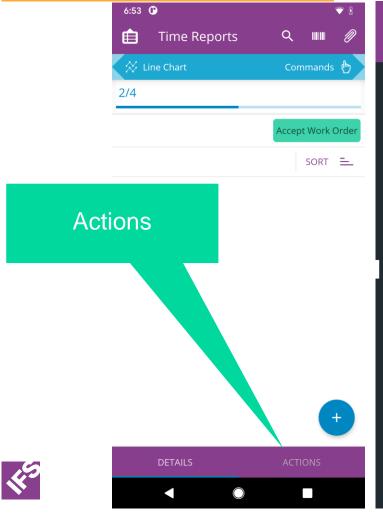


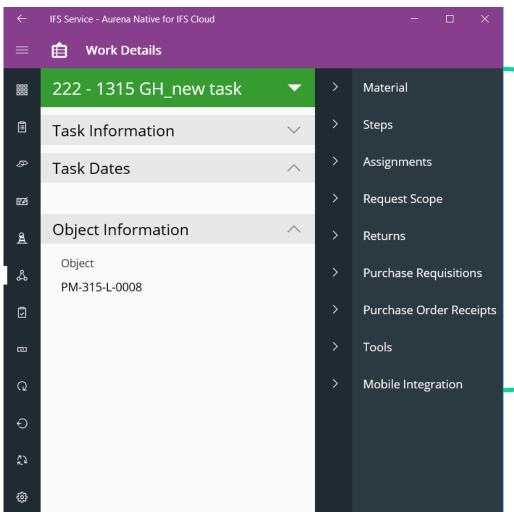
HEADER AND GROUP HEADER





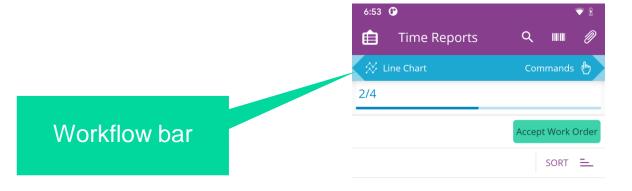
ACTIONS







WORKFLOW BAR

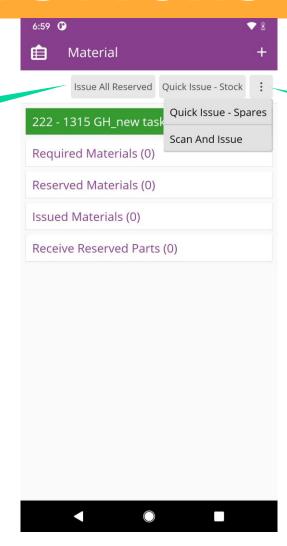






COMMAND BUTTONS

Command Buttons

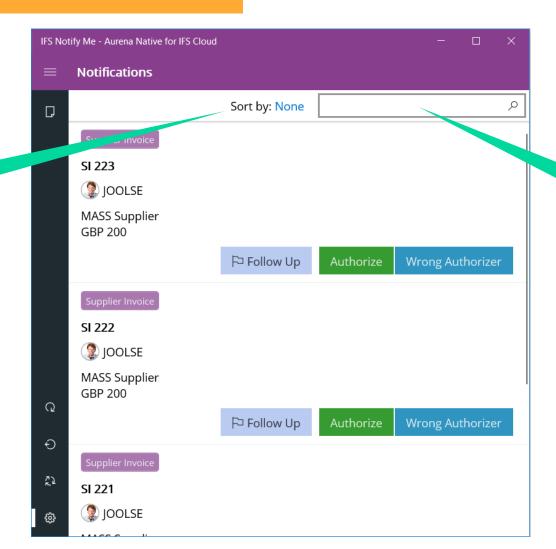


More Command Buttons



INTERACTION PATTERNS SORT AND SEARCH

Sort



Search



DEMO





KEY FUNCTIONS

OVERVIEW

Sync Monitor



Settings



Switch User





KEY FUNCTIONS SYNC MONITOR

- The Sync navigator choice takes you to Sync Monitor screen
- Shows sync status
- Shows pending transactions
- Following Actions can be performed:
- Sync
- Refresh Cache
- Initialize / Force initialize





KEY FUNCTIONS SYNC MONITOR

- Sync
- Receives new, changed, deleted data from IFS Cloud to IFS Aurena Native app.
- Sends new, changed, deleted data from IFS Aurena Native app to IFS Cloud.
- Refresh Cache
- Re-fetch all cached data from the server.





KEY FUNCTIONS SYNC MONITOR

- Initialize
- Sends pending transactional data from IFS Aurena Native App to IFS Cloud.
- Delete the local database on the device.
- Reload the following from IFS Cloud.
- Schema
- Data
- Configuration Pages
- Force Initialize
- Only available if you have started Initialize.
- Does the same as Initialize except for that transactional data is deleted. instead of being sent to IFS Cloud.





KEY FUNCTIONS SETTINGS

- The Settings navigator choice takes you to Settings screen.
- Change PIN code
- Send Device Logs
- About
- Clear Cache





KEY FUNCTIONS SETTINGS

- Change PIN Code
- Only available when pin code is enabled for the Aurena Native App.
- Send Device Logs
- Useful when someone needs to do client investigations on the IFS Aurena Native App.
- The device log can be shared with others or saved to the device.
- About
- Information page about app name, version, privacy policy and third-party software used.
- Clear Cache
- Will clear all Cache related data





KEY FUNCTIONS SWITCH USER

- The Switch User choice makes it possible to logout and login again without disconnecting.
- Very similar to disconnect on re-login screen.
- Clears any user information on the app locally on the device.
- Delete the local database.
- Does however not de-activate the IFS Aurena Native app in IFS Cloud.
- Used in Scan It and FLM app.





KEY FUNCTIONS

DEMO





SYNCHRONIZATION PRINCIPLES

OVERVIEW

- Basic principles
- Push and Batch entities
- Synchronization Rules
- Server-side synchronization
- Client-side synchronization



SYNCHRONIZATION PRINCIPLES BASIC PRINCIPLES

- Synchronization demand occurs when a change is done in either IFS Aurena Native App or in IFS Cloud.
- The synchronization demands are
- An insert New data
- An update A change to existing data
- A delete A removal of existing data
- The synchronization can occur at pre-defined times or immediately depending on the setup of the entity.



SYNCHRONIZATION PRINCIPLES PUSH AND BATCH ENTITIES

- Each entity used in Aurena Native are classified depending on how often the synchronization needs to be.
- Classification depends on the data:
- Basic data
- Static operational data
- Transactional data



SYNCHRONIZATION PRINCIPLES PUSH AND BATCH ENTITIES

- Batch entities are used for data that doesn't change so often.
- Static operational data
- Basic data
- Each Batch entity has a pre-defined schedule.
- Batch entities could have different frequency for synchronizing.
- Push entities are used for data that changes often.
- Transactional data
- Push entities are synchronized immediately



SYNCHRONIZATION PRINCIPLES SYNCHRONIZATION RULES

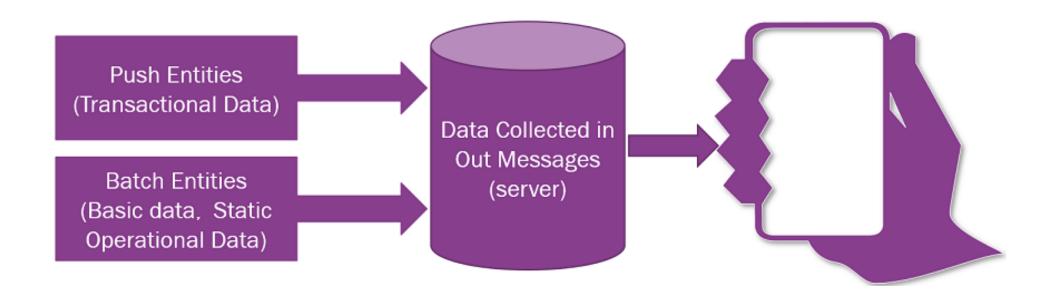
Synchronization Rules screen defines what synchronization method an entity has.

App Name : ServiceEngApp ▼ ⊗ App Version ▼ Entity ▼ More ▼ ♡ Favorites Clear Q : Settings									
~	:	App Name	App Version	Entity	Security Group	Rule Type	Default Delivery Method	Delivery Method	Changed By
	÷	ServiceEngApp	2.0	HistoryPartWoRequisLine	History	Application	Client Cache		IFSAPP
	÷	ServiceEngApp	2.0	IncomingJtTaskSurveyAn	eForms	Application	Incoming		IFSAPP
	፥	ServiceEngApp	2.0	InventoryPart	Parts	Application	Batch		IFSAPP
	፥	ServiceEngApp	2.0	InventoryPartInStock	Parts	Application	Batch		IFSAPP
	÷	ServiceEngApp	2.0	InvoiceRule	ServiceQuotation	Application	Batch		IFSAPP
	፥	ServiceEngApp	2.0	IsoUnit	WorkExecution	Application	Batch		IFSAPP
	፥	ServiceEngApp	2.0	ItemClass	BasicData	Application	Batch		IFSAPP
	÷	ServiceEngApp	2.0	ItemClassFunction	BasicData	Application	Batch		IFSAPP
	÷	ServiceEngApp	2.0	JtCostCategory	WorkExecution	Application	Batch		IFSAPP
	:	ServiceEngApp	2.0	JtExecutionInstance	WorkExecution	Application	Push And Batch		IFSAPP
	÷	ServiceEngApp	2.0	JtIncompletionCause	WorkExecution	Application	Batch		IFSAPP
	÷	ServiceEngApp	2.0	JtTask	WorkExecution	Application	Push And Batch		IFSAPP



SYNCHRONIZATION PRINCIPLES

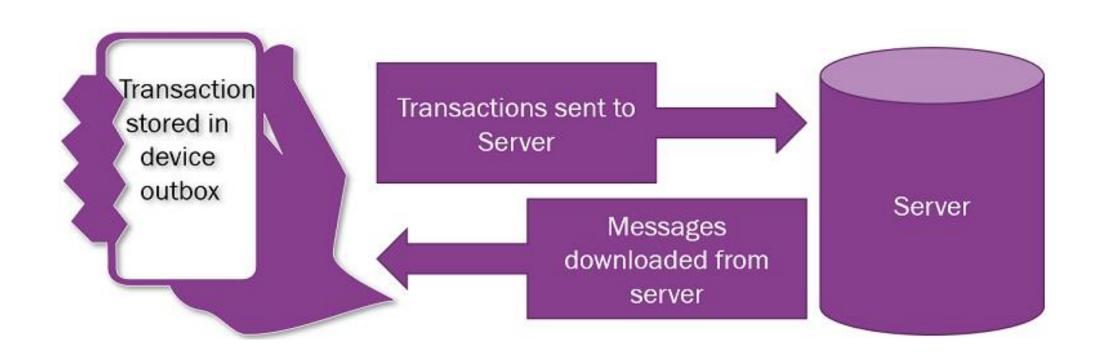
SERVER SIDE SYNCHRONIZATION





SYNCHRONIZATION PRINCIPLES

CLIENT SIDE SYNCHRONIZATION







SYNCHRONIZATION PROCESS

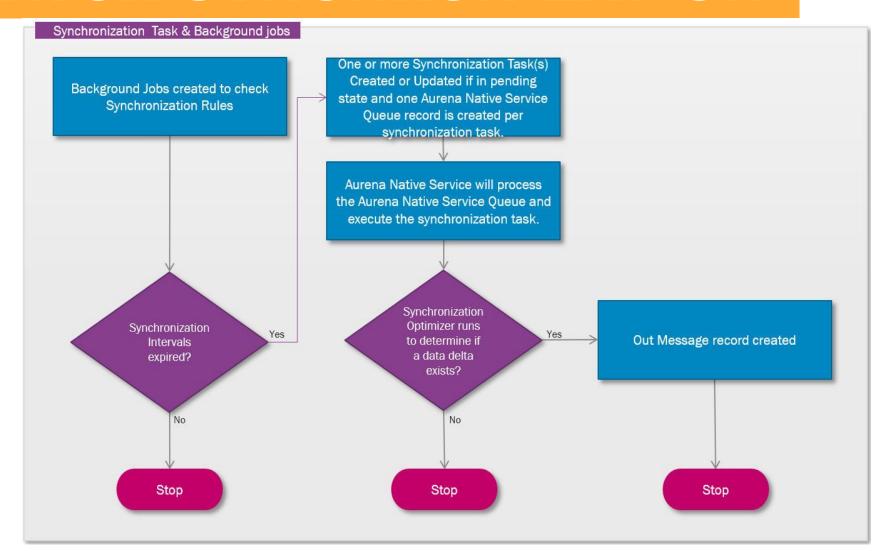
OVERVIEW

- Batch Synchronization
- Push Synchronization
- Push Notifications
- Grouped Push Synchronization
- Cached
- Online
- Incoming



SYNCHRONIZATION PROCESS

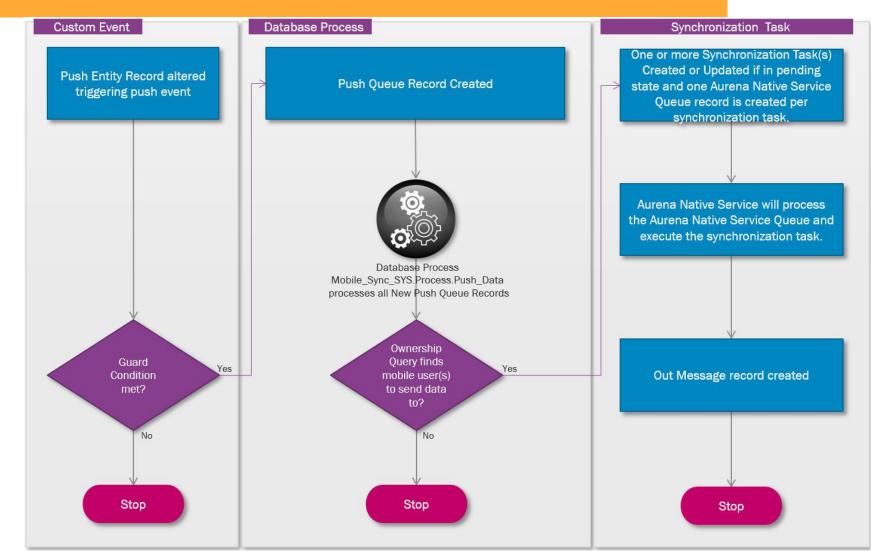
BATCH SYNCHRONIZATION





SYNCHRONIZATION PROCESS

PUSH SYNCHRONIZATION





SYNCHRONIZATION PROCESS PUSH NOTIFICATIONS

- When the Out Message is created via either the Batch Process or the Push (and Batch) process a push notification is sent to IFS Aurena Native App.
- This notifies that there is new data available to download.



SYNCHRONIZATION PROCESS GROUPED PUSH SYNCHRONIZATION

- Used to synchronize the same set of data to a group of users.
- Useful for large data sets which can be split to group of users.
- A special Grouped Push User executes the database process that collects the data pushed to a user group.
- Screen Grouped Push User Filter in IFS Cloud is used to define what data should be collected for which user group.
- The data is collected the first time a user within a group connects with the IFS Aurena Native App.
- When next user within the same group connects, the collected data is synchronized to that user (plus any subsequent changes to the collected data).



SYNCHRONIZATION PROCESS CACHED

- Only accessible in the first instance in the IFS Aurena Native App when the device has connectivity to IFS Cloud.
- The data will be saved for offline usage in the IFS Aurena Native App.
- Cached entities can be refreshed on a configurable frequency or on demand within the IFS Aurena Native App.



SYNCHRONIZATION PROCESS ONLINE

- Only accessible in the IFS Aurena Native App when the device has connectivity to IFS Cloud.
- The data will be accessed directly online and will not be saved for offline usage in the IFS Aurena Native App.



SYNCHRONIZATION PROCESS INCOMING

- Incoming entities do not synchronize data to the IFS Aurena Native App.
- They are used to send data from the IFS Aurena Native App to IFS Cloud.



SYNCHRONIZING PROCESS

DEMO





ERROR HANDLING OVERVIEW

- Why error handling?
- Client-side error handling
- Server-side error handling
- Failed transactions



ERROR HANDLING? WHY ERROR HANDLING?

- Main reasons
- Aurena Native Apps can operate offline without connection to IFS Cloud and someone can have changed the transactional data in IFS Cloud.
- Static Operational Data or Basic Data has changed in IFS cloud but not yet been synchronized to Aurena Native app regardless if you are online or offline.
- In both cases an error could occur that needs to be resolved.
- Each Aurena Native App has a pre-defined way how errors should be resolved.
- Client-side error handling
- Server-side error handling



ERROR HANDLING CLIENT SIDE ERROR HANDLING

- Errors are received in the IFS Aurena Native App.
- Correction of the transaction is done on the client before sending back to IFS Cloud.
- The IFS Aurena Native App has been defined to use "client-side" error handling.
- Used in IFS Notify Me.



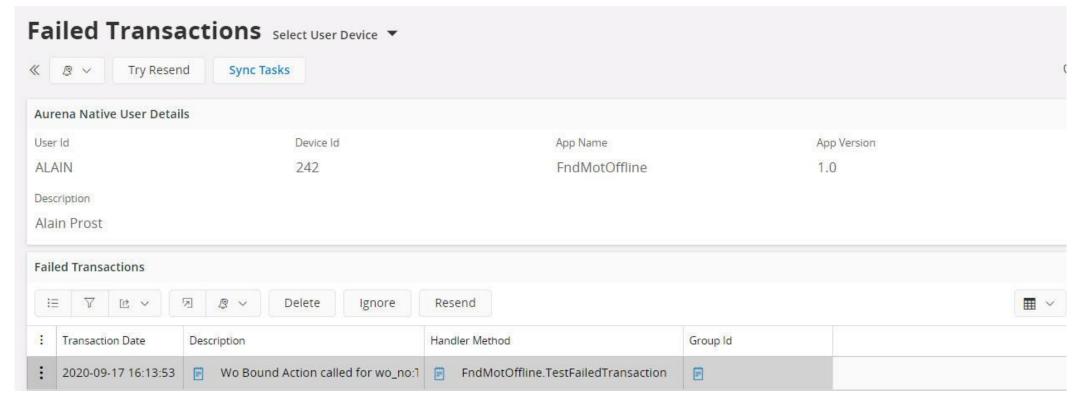
ERROR HANDLING SERVER SIDE ERROR HANDLING

- Errors are caught in IFS Cloud after the transaction has been sent from IFS Aurena Native app.
- Correction of the transaction is done in IFS Cloud.
- The IFS Aurena Native App has been defined to use "server-side" error handling.
- Used in IFS MWO Service and IFS MWO Maintenance.



ERROR HANDLING FAILED TRANSACTIONS

- Server-side errors are displayed and managed in Failed Transaction screen in IFS Cloud.
- Failed transactions are processed by a user with administrator privileges.





ERROR HANDLING FAILED TRANSACTIONS

- Failed Transactions can be resolved by
- Resend
- Update Data and Resend
- Update Transaction Data and Resend
- Ignore Error Type and Resend
- Delete Failed Transaction and Resend



