

```
@startuml
!pragma teoz true
!theme cerulean
```

```
skinparam backgroundColor white
autonumber "<b>[0]"
```

```
actor User as user
participant "mod-data-import" as mdi
participant "mod-srm" as srm
participant "mod-srs" as srs
participant "mod-inventory" as inv
participant "mod-inventory-storage" as invs
```

```
user -> mdi: create upload definition (record type)
activate mdi
mdi -> srm: create job execution
activate srm
srm --> mdi: job execution id
deactivate srm
mdi --> user:
deactivate mdi
```

```
user -> mdi: upload MARC file
activate mdi
mdi -> mdi: save uploaded MARC file
mdi --> user:
deactivate mdi
```

```
user -> mdi: select job profile and trigger processing
activate mdi
mdi --> user:
mdi -> srm: set job profile id to job execution
activate srm
srm --> mdi:
deactivate srm
mdi -> mdi: split file to chunks
mdi -> srm: send MARC file in chunks to <<DI_RAW_RECORDS_CHUNK_READ>>
deactivate mdi
```

```
activate srm
srm -> srm: init job progress
srm -> srm: parse and validate records,\nsave the incoming MARC records content
srm -> srm: create event payload (profileId, parsed MARC),\ninitialize mapping parameters
srm -> inv: <<DI_MARC_FOR_UPDATE_RECEIVED>>
deactivate srm
```

```
' marc-to-instance match profile processing
```

```
activate inv
inv -> invs: lookup INSTANCE
activate invs
invs --> inv: search result
deactivate invs

alt #LightYellow instance not found
  inv -> srm: <<DI_COMPLETED>> (DI_INVENTORY_INSTANCE_NOT_MATCHED)
  activate srm
  srm -> srm: update job progress
  deactivate srm
else #White instance found
  inv -> inv: <<DI_INVENTORY_INSTANCE_MATCHED>>
' update instance action profile processing
  inv -> invs: update INSTANCE
  activate invs
  invs -> invs: persists to DB
  invs --> inv: update result
  deactivate invs
  inv -> srs: update MARC-BIB record
  activate srs
  srs -> srs: persists to DB
  srs --> inv: update result
  deactivate srs
  inv -> inv: <<DI_INVENTORY_INSTANCE_UPDATED>>

' marc-to-holdings match profile processing
  inv -> invs: lookup HOLDING
  activate invs
  invs --> inv: search result
  deactivate invs
  alt #LightYellow holding not found
    inv -> srm: <<DI_COMPLETED>> (DI_INVENTORY_HOLDING_NOT_MATCHED)
    activate srm
    srm -> srm: update job progress
    deactivate srm
  else #White holding found
    inv -> inv: <<DI_INVENTORY_HOLDING_MATCHED>>
' update holdings action profile processing
  inv -> invs: update HOLDING
  activate invs
  invs -> invs: persists to DB
  invs --> inv: update result
  deactivate invs
  inv -> inv: <<DI_INVENTORY_HOLDING_UPDATED>>

' marc-to-item match profile processing
  inv -> invs: lookup ITEM
```

```
activate invs
invs --> inv: search result
deactivate invs
alt #LightYellow item not found
  inv -> srm: <<DI_COMPLETED>> (DI_INVENTORY_ITEM_NOT_MATCHED)
  activate srm
  srm -> srm: update job progress
  deactivate srm
else #White item found
  inv -> inv: <<DI_INVENTORY_ITEM_MATCHED>>
' update item action profile processing
  inv -> invs: update ITEM
  activate invs
  invs -> invs: persists to DB
  invs --> inv: update result
  deactivate invs
  alt #LightPink item update failed
    inv -> srm: <<DI_ERROR>>
    activate srm
    srm -> srm: update job progress
    deactivate srm
  else #White item updated
    inv -> srm: <<DI_COMPLETED>> (DI_INVENTORY_ITEM_UPDATED)
    activate srm
    srm -> srm: update job progress
    deactivate srm
  end
end
end
end
end
@enduml
```