


# 2022-12-22 Sprint 193 Review

- Sprint duration: 07 Dec 2022 - 21 Dec 2022
- [Agenda](#)
- [Overview Deployments of FDS](#)

## Stories

### Team Bobin

 **FU-6739** - Persist content inventory histories RESOLVED

```
//change to qualification_reu
cf target -s qualification_reu
```

```
//go to the DB and ensure that there is no Entry with haId 338090376530003307 yet:
```

```
cf ssh mongo-shell -c "mongo \"mongodb://reu_qualification_content-inventory-service_regional:$(gopass show
fds/mongodb/reu_qualification_content-inventory-service_regional)@n0.ib4c1bc06-7332-412d-8fe4-2cfd5aa3b22.
mongodb.tcp.eks-services.internal,n1.ib4c1bc06-7332-412d-8fe4-2cfd5aa3b22.mongodb.tcp.eks-services.internal,
n2.ib4c1bc06-7332-412d-8fe4-2cfd5aa3b22.mongodb.tcp.eks-services.internal/reu_qualification_content-
inventory-service_regional?replicaSet=rs0&tls=true\" " -t

db.currentHaContentInventory.findOne({haId:"338090376530003307"})
db.haContentInventoryHistory.findOne({haId:"338090376530003307"})
```

```
//open kafka-utils and go into bin directory
cf ssh kafka-utils-stg
```

```
cd /kafka/bin
```

```
//send following messages:
```

#### Content inventory 1

```
./kafka-console-producer.sh --bootstrap-server bootstrap.kafka-dev.eks-services.internal:32612 --producer.
config consumer.properties --topic hc-cds-stg-reu-ha-inventory-events <<EOF
{"metadata":{"haId":"338090376530003307","lastModified":"2022-09-22T10:14:31.933Z"},"inventory":
[{"contentModuleId":"module:123","contentModuleSha256":"hash:123","contentSourceId":"source:123"}]}
EOF
```

#### Content inventory 2 with older timestamp (it should not be persisted)

```
./kafka-console-producer.sh --bootstrap-server bootstrap.kafka-dev.eks-services.internal:32612 --producer.
config consumer.properties --topic hc-cds-stg-reu-ha-inventory-events <<EOF
{"metadata":{"haId":"338090376530003307","lastModified":"2022-08-22T10:14:31.933Z"},"inventory":
[{"contentModuleId":"module:456","contentModuleSha256":"hash:456","contentSourceId":"source:456"}]}
EOF
```

#### Content inventory 3 with newer timestamp

```
./kafka-console-producer.sh --bootstrap-server bootstrap.kafka-dev.eks-services.internal:32612 --producer.
config consumer.properties --topic hc-cds-stg-reu-ha-inventory-events <<EOF
{"metadata":{"haId":"338090376530003307","lastModified":"2022-10-22T10:14:31.933Z"},"inventory":
[{"contentModuleId":"module:789","contentModuleSha256":"hash:789","contentSourceId":"source:789"}]}
EOF
```

### Content inventory 3 again with newer timestamp (should not be persisted)

```
./kafka-console-producer.sh --bootstrap-server bootstrap.kafka-dev.eks-services.internal:32612 --producer.config consumer.properties --topic hc-cds-stg-reu-ha-inventory-events <<EOF
{"metadata":{"haId":"338090376530003307","lastModified":"2022-11-22T10:14:31.933Z"},"inventory":[{"contentModuleId":"module:789","contentModuleSha256":"hash:789","contentSourceId":"source:789"}]}
EOF
```

### Content inventory 4 with newer timestamp

```
./kafka-console-producer.sh --bootstrap-server bootstrap.kafka-dev.eks-services.internal:32612 --producer.config consumer.properties --topic hc-cds-stg-reu-ha-inventory-events <<EOF
{"metadata":{"haId":"338090376530003307","lastModified":"2022-12-01T10:14:31.933Z"},"inventory":[{"contentModuleId":"module:123","contentModuleSha256":"hash:123","contentSourceId":"source:123"}, {"contentModuleId":"module:456","contentModuleSha256":"hash:456","contentSourceId":"source:456"}]}
EOF
```

//check the DB to ensure that there are exactly 3 content inventory history entries

```
db.haContentInventoryHistory.count({haId:"338090376530003307"})
```

//connect to content-inventory service

```
cf ssh content-inventory-service -L 8080:localhost:8080
```

//get keycloak token

```
TOKEN=$(curl -X POST "https://keycloak.srv.reu.bsh-lando.com/auth/realms/HC_FDS/protocol/openid-connect/token" -d "grant_type=password&username=fds_technical_user&password=$(gopass show fds/keycloak/users/fds_technical_user)&client_id=demo&client_secret=$(gopass show fds/keycloak/clients/demo/secret)" | jq -r '.access_token')
```

//check that history entries are returned correctly

```
HAID=338090376530003307
curl -X 'GET' "http://localhost:8080/rest/v1/content-inventory/$HAID/history" -H 'accept: */*' -H "Authorization: Bearer $TOKEN"
```

Should return the three timestamps: 2022-09-22T10:14:31.933Z, 2022-10-22T10:14:31.933Z, 2022-12-22T10:14:31.933Z

//check that current inventory is returned correctly

```
curl -X 'GET' "http://localhost:8080/rest/v1/content-inventory/$HAID" -H 'accept: */*' -H "Authorization: Bearer $TOKEN"
```

Should return inventory 4 with modules 123 and 456

//check that historic content inventory is returned correctly (with timestamp 2022-10-24T12:23:34.000Z)


```
TIMESTAMP=1666614214000
curl -X 'GET' "http://localhost:8080/rest/v1/content-inventory/$HAID?timestamp=$TIMESTAMP" -H 'accept: */*' -H "Authorization: Bearer $TOKEN"
```

should return inventory 3 (with module 789) as that was the content inventory of the HA at that time

Cleanup:

```
db.currentHaContentInventory.deleteOne({"haId": "338090376530003307"})

db.haContentInventoryHistory.deleteMany({"haId": "338090376530003307"})
```

 **FU-6897** - Produce external HA created events RESOLVED

Send a factory dolInventory for a new home appliance and check that the event is relayed to the "hc-fds-stg-reu-haEventsExternal" topic:

```
cf ssh kafka-utils
/kafka/bin/kafka-console-consumer.sh --bootstrap-server bootstrap.kafka-dev.eks-services.internal:32612 --consumer.config /kafka/bin/consumer.properties --topic hc-fds-reu-stg-haEventsExternal
```

```
SERIAL=777777777
```

```
curl -X 'POST' \
  "https://api-gateway.stg.dev.homeconnectfds.com/2.0/fis/${SERIAL}/details" \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -u fis:$(gopass show fds/reu/qualification/apig/fis) \
  -d '{
    "deviceData": {
      "mac": "01-23-45-67-89-ac",
      "deviceType": "Dishwasher",
      "vib": "XVVR23RG1",
      "ddfMajorVersion": 1,
      "brand": "SIEMENS",
      "outgoingStorageLoc": "0000",
      "haID": "SIEMENS-XVVR23RG1-0123456789ac",
      "customerIndex": "02",
      "fdString": "0103",
      "manufacturingTS": "2020-01-01T00:00:01"
    },
    "inventory": {
      "ECUs": [
        {
          "name": "COM2",
          "ppfDestinationNode": 177,
          "hardwareId": 7,
          "version": {
            "major": 9,
            "minor": 15,
            "revision": 1
          },
          "tracingId": "54327897848848329916283884291",
          "firmware": [
            {
              "firmwareId": 60100001734557,
              "version": {
                "major": 9,
                "minor": 15,
                "revision": 1
              }
            }
          ]
        }
      ]
    }
  },
  ],
```

```

    "content": [
      {
        "contentId": 4298,
        "version": {
          "major": 9,
          "minor": 15,
          "revision": 1
        }
      }
    ],
    "backUpFirmware": [
      {
        "firmwareId": 60100001734557,
        "version": {
          "major": 9,
          "minor": 15,
          "revision": 1
        }
      }
    ]
  },
  "RACs": [
    {
      "racId": 912883,
      "ppfDestinationNode": 177,
      "version": {
        "major": 9,
        "minor": 15,
        "revision": 1
      }
    }
  ]
},
}
```

Check afterwards that the timestamp of the creation of the external event is  $\geq$  the internal created timestamp in the har db (show via asc).

Check the same for a field `doInventory` for a new device (Download [doInventory.json](#))

```
VIB=TESTVIB
KI=TESTKI
FU_VERSION=5
SERIAL=5555555
PAYLOAD=$(cat doInventory.json | sed -e "s/%%SERIAL%%/$SERIAL/g" -e "s/%%FU_VERSION%%/$FU_VERSION/g" -e "s/%%VIB%%/$VIB/g" -e "s/%%KI%%/$KI/g")

curl -X 'POST' \
  "https://api-gateway.stg.dev.homeconnectfds.com/api/1.0/ha/$SERIAL/notify" \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d "$PAYLOAD" \
  -u heimdall:$(gopass show fds/reu/qualification/apig/heimdall)
```

Send the same `doinventory` again and check that the event is not thrown for a `doinventory` of an existing device.

Send the same `doInventory` again with a changed config and show that an `UNEXPECTED_CONFIGURATION_CHANGE` event is thrown on the external topic.

## Team Ratman

-  **FU-6936** - Improved FDS-Controller exception handling RESOLVED
  - As a first step towards well established problem detail json we enable our services to return proper details as json in the case of any failure on a rest-endpoint
  - see details on fields of the problem details [Problem Details - fields](#)
    - spring-services return problem detail jsons when requested via accept-header "application/problem+json"

### Distribution-service (Spring-Boot)

```
cf ssh distribution-service -L 8080:localhost:8080
# ds not found
curl -X 'GET' 'http://localhost:8080/rest/v1/ds/sets/1891240794604' -H 'accept: application/json' -H 'accept: application/problem+json' | jq
curl -X 'GET' 'http://localhost:8080/rest/v1/ds/sets/1891240794604' -H 'accept: application/json'

# wrong method
curl -X 'POST' 'http://localhost:8080/rest/v1/ds/sets/123/details' -H 'accept: application/json' -H 'accept: application/problem+json' | jq
curl -X 'POST' 'http://localhost:8080/rest/v1/ds/sets/123/details' -H 'accept: application/json'

# incompatible configuration for BTM-package
curl -X 'POST' 'http://localhost:8080/rest/v1/btmPackage?configId=5280185292205529727' -H 'accept: */*' -H 'accept: application/problem+json' -d '' | jq
curl -X 'POST' 'http://localhost:8080/rest/v1/btmPackage?configId=5280185292205529727' -H 'accept: */*' -d ''
```

- micronaut services always return problem detail jsons

### firmware-packaging-service (Micronaut)

```
cf ssh firmware-packaging-service -L 8080:localhost:8080

# switch to new terminal
TOKEN=$(curl -X POST "https://keycloak.srv.reu.bsh-lando.com/auth/realms/HC_FDS/protocol/openid-connect/token" -d "grant_type=password&username=fds_technical_user&password=$(gopass show fds/keycloak/users/fds_technical_user)&client_id=demo&client_secret=$(gopass show fds/keycloak/clients/demo/secret)" | jq -r '.access_token')
curl -s 'http://localhost:8080/rest/v1/toolconfig' -H 'accept: application/json' -H "Authorization: Bearer $TOKEN" | jq
curl -s 'http://localhost:8080/rest/v1/toolcoig' -H 'accept: application/json' -H "Authorization: Bearer $TOKEN" | jq
curl -X 'POST' \
  'http://localhost:8080/rest/v1/config-package/123' \
  -H 'accept: application/octet-stream' \
  -H 'Content-Type: application/json' \
  -d '{
    "packageTarget": "string",
    "toolsVerified": {
      "plmId": "string",
      "version": {
        "major": 0,
        "minor": 0,
        "revision": 0,
        "build": 0
      }
    }
  }' -H "Authorization: Bearer $TOKEN" | jq
```



undocumented feature: problem details are available for all endpoints of api-gateway via accept header problem+json.

Behaviours of documented problem details are unchanged.

- [FU-6893](#) - [OEM] separate package persistence by supplier ID **RESOLVED** and
- [FU-6754](#) - Distributionsets for OEM can be created **RESOLVED**
- New package structure:

- REU development:  
*firmware-repository-dev-homeconnectfds-com/fds/packages\_testing/*  
*firmware-repository-dev-homeconnectfds-com/fds/packages\_qualification/*  
*firmware-repository-dev-homeconnectfds-com/fds/packages\_validation/*
- REU production:  
*firmware-repository-reu-homeconnectfds-com/fds/packages\_operation/*  
*firmware-repository-reu-homeconnectfds-com/fds/packages\_production/*
- RGC development:  
*firmware-repository-dev-homeconnectfds-cn/fds/packages\_validation/*
- RGC production:  
*firmware-repository-rgc-homeconnectfds-cn/fds/packages\_operation/*  
*firmware-repository-rgc-homeconnectfds-cn/fds/packages\_production/*
- with subfolders
  - internal for BSH *internal/1* update packages
  - oem/<supplierId> for OEM supplied update packages with their supplierId
- import of firmware modules for OEM

get dependency bodies

#### import dependencies

```
curl -X 'POST' \
  'https://api-gateway.stg.dev.homeconnectfds.com/1.0/dependencyset' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' -d @dependency0002.json
curl -X 'POST' \
  'https://api-gateway.stg.dev.homeconnectfds.com/1.0/dependencyset' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' -d @dependency0004.json
```

#### • Create DS for oem via bulk-distribution-set

- with [superdsoem.json](#) (adjust supplierId to something different than 1)

#### DS with supplierId for OEM

```
curl -u pxx:$(gopass show -o fds/reu/qualification/apig/pxx) -X 'POST' 'https://api-gateway.stg.dev.homeconnectfds.com/1.0/pxx/superDistributionSet' -H 'accept: */*' -H 'accept: application/problem+json' \
  -H 'Content-Type: application/json' \
  -d @superdsoem.json -i
```

- with [superdsymana.json](#)

#### DS with supplierId for SYMANA

```
curl -u pxx:$(gopass show -o fds/reu/qualification/apig/pxx) -X 'POST' 'https://api-gateway.stg.dev.homeconnectfds.com/1.0/pxx/superDistributionSet' -H 'accept: */*' -H 'accept: application/problem+json' \
  -H 'Content-Type: application/json' \
  -d @superdsymana.json -i
```

- without supplierId with [superdsBad.json](#)

#### DS without supplierId for OEM

```
curl -u pxx:$(gopass show -o fds/reu/qualification/apig/pxx) -X 'POST' 'https://api-gateway.stg.dev.homeconnectfds.com/1.0/pxx/superDistributionSet' -H 'accept: */*' -H 'accept: application/problem+json' \
  -H 'Content-Type: application/json' \
  -d @superdsoemBad.json | jq
```

#### • Create DS in ASC

Create DS in ASC

```
- create DS for SMM with FWM eg "66666 - Firmware Module - Matching includes - 1.0.0.0"

- download update package

- find hash of update package in Kibana
https://logs.srv.reu.bsh-lando.com/goto/274eea9c0cdf54be206d9d71b86a4a73

- look for update package in S3 and show correct folder structure

Clean up before review: delete DS and UP
```

#### Create DS for OEM in ASC

```
- create DS for OEM with FWM

- download update package

- find hash of update package in Kibana
https://logs.srv.reu.bsh-lando.com/goto/274eea9c0cdf54be206d9d71b86a4a73

- look for update package in S3 and show correct folder structure

Clean up before review: delete DS and UP
```

#### • Create DS via ATE

- for "old" architectures unchanged

##### create DS for SYSTEM\_MASTER via ATE

```
curl -X 'POST' \
  'https://api-gateway.stg.dev.homeconnectfds.com/1.0/distributionsets' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -u pxx:$(gopass show fds/reu/qualification/apig/pxx) \
  -d '{
    "releaseNotesId": "1111",
    "userId": "Basic",
    "name": "Ds for SMM",
    "description": "ds_creation_system_master",
    "category": "BUG_FIX",
    "severity": "EMERGENCY",
    "execution": "REPAIR",
    "architecture": "SYSTEM_MASTER",
    "fdsFwModuleIds": [
      "63b794db2f96c8d95acfe5860592a52d"
    ]
  }' | jq
```

- for OEM not supported

##### create DS for OEM via ATE

```
curl -X 'POST' \
  'https://api-gateway.stg.dev.homeconnectfds.com/1.0/distributionsets' \
  -H 'accept: application/json' \
  -H 'accept: application/problem+json' \
  -H 'Content-Type: application/json' \
  -u pxx:$(gopass show fds/reu/qualification/apig/pxx) \
  -d '{
    "releaseNotesId": "1111",
    "userId": "Basic",
    "name": "DS for OEM",
    "description": "test ds creation",
    "category": "BUG_FIX",
    "severity": "EMERGENCY",
```

```
"execution": "REPAIR",
"architecture": "OEM",
"fdsFwModuleIds": [
    "112f8e94d1c394119fed6f771ae1979"
]
}' | jq
```

- Check the URI of an update package

#### Retrieve URLs

```
cf ssh uri-handler -L 8080:localhost:8080

curl -X 'POST' \
  'http://localhost:8080/rest/v1/suppliers/1/packages/retrieve-urls' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "packageIds": [
      "11628933842192044525"
    ],
    "downloadScope": "SYSTEM_MASTER"
  }' | jq
```

- Retrieve package meta data -> show the filesize on asc detail page and calculate

#### Retrieve meta data

```
cf ssh uri-handler -L 8080:localhost:8080

curl -X 'GET' \
  'http://localhost:8080/rest/v1/suppliers/1/packages/11628933842192044525/retrieve-meta' \
  -H 'accept: application/json' | jq

curl -X 'GET' 'http://localhost:8080/rest/v1/suppliers/101038/packages/3655977620528501229/retrieve-meta' -H 'accept: application/json' | jq
```

- update Freshness in ASC

## Bug-fixes and minor enhancements

Key	Summary	T	Assignee	Reporter	Status	Resolution
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No issues found