AUG GLOBAL
NGI – Zebra Sprint 23 - Showcase
March – 2022

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Zebra Sprint 23 – Delivery & Discovery

The scope of **development** work for this sprint was for the following features:

Feature/Story	Status	Team
Meter Management	In Progress	Zebra
Task Management	In Progress	Zebra
Asset Management	In Progress	Zebra
Foundation and Automation work	In Progress	Zebra

The scope of **discovery** work for this sprint was for the following features:

Feature/Story	Status	Team
Meter Management	In Progress	Zebra

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Team was working on the following micro services:

- MetersManagement

- TasksManagement

- AssetsManagement

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Team added the following **new APIs**:

- Trigger Get Cumulative Report API
- Trigger Get Cooking Session API
- Trigger Get Customer Install Report API
- Trigger Get Hardware Report API
- Trigger Get Logs API
- Trigger Get Meter Status API
- Trigger Get Settings API
- Bulk Upload Meter Assemblies API
- [Legacy] Retrieve Customer Package Details API

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Story	Assignee
NGI-389 [MetersManagment] Extend Register Meter API to set meter settings by default	VictorM
NGI-385 [TasksManagement] Investigate how to implement multiple filters of same type retrieving from ELK and implement it	VictorM
NGI-388 [FOUNDATION] DMS to be private	Yevhenii
NGI-384 [MetersManagement] Create API to Trigger Get Cumulative Reports API at IoTCore	VictorS
NGI-387 [Infrastructure] ELK in VPC	Serhii
NGI-364 [AssetsManagement] Add the validation on Close Routine to not allow close it if there are assets in Returned status	Serhii
NGI-382 [LegacyInergyIntegration] API to retrieve customer package details	Vova
NGI-381 [MetersManagement] Bulk Upload Meter Assemblies API	Oleg
NGI-392 [MetersManagement] APIs to trigger commands on meter and record outgoing logs	Oksana

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[NGI-389 \[MetersManagment\] Extend Register Meter API to set meter settings by default](#) – VictorM

Tech Notes

- Change Register Meter payload to:

```
1  POST v1/meters/register/{assetId}
2
3  {
4    "type": "P4-MQTT",
5    "barcode": "KE12345678"
6  }
```

- Change Register Meter handler functionality to get settings from `ngi-metersManagement-configurations` instead of `ngi-metersManagement-defaultSettings`

  - Remove `ngi-metersManagement-defaultSettings` table
  - Meter settings should be applied by default using default meter settings (`ngi-metersManagement-configu`
    - Define binding between meter and default settings - **Note: Only one active per tenant should be, s** **define binding between meter and default settings**

- Meter assembly should be applied by barcode from ngi-metersManagement-assembly
- Extend the Create Meter Configuration API to not allow creation of new configuration if the active configuration a exists

```
1   {
2     "type": "P4-MQTT",
3     "serial": "KE12345678",
4     "barcode": "KE12345678",
5     "iccid": "1234567890",
6     "ip": "192.168.1.1",
7     "firmware": "Test",
8     "controller": "Test",
9     "sensorType": "Test",
10    "sensorSlope": "Test",
11    "sensorIntercept": "Test",
12    "sensorSerial": "Test12",
13    "pcb": "Test",
14    "battery1": "a2dcc56d-c99b-486e-879d-8a409be27429",
15    "battery2": "862a9dbe-3188-4f71-a514-218b6ae2378d",
16    "status": "Inactive",
17    "condition": "Not Tested",
18    "unitPrice": 76.8,
19    "currency": "KES"
20  }
```

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[NGI-385 [TasksManagement] Investigate how to implement multiple filters of same type retrieving from ELK and implement it](#) – **VictorM**

Tech notes:

- Updated retrieveTasks handler in NGI-tasksManagement
- Described changes in 🗐 Retrieve Tasks API

Query example:

```
1
2   {
3     "sort": [
4       {
5         "updatedAt": {
6           "order": "desc"
7         }
8       }
9     ],
10    "query": {
11      "bool": {
12        "should": [
13          {
14            "match": {
15              "location_.street.keyword": "Street s"
16            }
17          },
18          {
19            "match": {
20              "location_.street.keyword": "Street"
21            }
```

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[NGI-388 [FOUNDATION] DMS to be private](#) **– Yevhenii**

Tech notes:

- Recreate DMS replication instances on PROD and TEST environments to not be publicly visible.
- Recreate DMS migration tasks in order to reference on private replication instance.

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[NGI-384 [MetersManagement] Create API to Trigger Get Cumulative Reports API](#) [at IoTCore](#) **– VictorS**

Tech Notes

- New 📄 Trigger Get Cumulative Report Status trigger 📄 v2.0 Get Cumulative Report API - IoT Core stack command

```
1   POST api/v1/meters/{meterId}/triggerGetCumulativeReportStatus?tenant={tenant}&userName={userNa
```

- new triggerGetCumulativeReportStatus lambda handler to call the IoT Core API
- CI/CD to deploy and configure new API

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NGI-387 [Infrastructure] ELK in VPC – **Serhii**

Tech notes:

- Refactored CloudFormation template to use VPC for OpenSearchDomain config instead of ElasticSearchDomain;
- Added VPC configuration;
- Refactored OSD policies to disallow external requests;

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[NGI-364 [AssetsManagement] Add the validation on Close Routine to not allow close it if there are assets in Returned status](#) **– Serhii**

As a Depot Manager

I want to not allow technician closes his routine before I receive his assets in depot

So that I can be sure that all assets are returned in the depot as well

Tech Notes:

- add the validation on Close Routine API to not allow close it if there are assets of Returned state in the routine.

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NGI-382 [LegacyInergyIntegration] API to retrieve customer package details – Vova

Retrieve Customer Package Details V1 allows retrieve customer package details

- See also 🗎 APIs Integration Common Information

```
1  GET v1/customers/{id}/package
```

Response Body:

```
 1  {
 2    "result": {
 3      "id": 123,
 4      "name": "ABC455",
 5      "description": "ABC 455 Test Package",
 6      "unitPrice": 0,
 7      "currency": "KES",
 8      "products": [{
 9        "assetType": "Meter",
10        "barcode": "KEGM003426",
11        "ownedBy": 1
12      }, {
13        "assetType": "Fire Blanket",
14        "barcode": "YH20190604907",
15        "ownedBy": 2
16      }]
17    }
18    "errors": [
19      {
20        "code": "string",
21        "desc": "string"
22      }
23    ]
24  }
```

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NGI-381 [MetersManagement] Bulk Upload Meter Assemblies API – Oleg

As a Product Technician

I want to be able to upload details for meters which should arrived from supplier

So that this information could be automatically prefilled during meter registration once meters arrived

Tech Notes:

- add new API to upload meter assemblies data in batches
  - no need to create assets/meters on this stage, just record data for further usage on registration
- Use attached file to determine API payload.
- Confluence page 📄 Bulk Upload Meter Assemblies

```
 1  Request:
 2  POST /v1/meters/assembly
 3  {
 4    "meters": [
 5      {
 6        "barcode": "string2",
 7        "serial": "string",
 8        "pcb": "string",
 9        "sensorSerial": "string"
10      }
11    ]
12  }
13  Response:
14  200 OK
15  {
16      "result": null
17  }
18
```

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NGI-392 [MetersManagement] APIs to trigger commands on meter and record outgoing logs – **Oksana**

User Story:

As a product technician
I want to be able to see up-to-date data from meter for cooking session, meter status, settings, hardware report, customer install report, logs, self test
So that I can troubleshoot meter related issues for customers

As a product technician
I want to be able to see outgoing logs with status of commands sent to meter and when/who initiated them for specific meter or customer
So that I can troubleshoot meter related issues for customers

Acceptance Criteria:

- Add new APIs to trigger following commands to meter:
  - Trigger Get Cooking Session Trigger Get Cooking Session Report - Next Gen Inergy - Confluence (atlassian.net)
  - Trigger Get Customer Install Report Trigger Get Customer Install Report - Next Gen Inergy - Confluence (atlassian.net)
  - Trigger Get Hardware Report Trigger Get Hardware Report - Next Gen Inergy - Confluence (atlassian.net)
  - Trigger Get Logs Trigger Get Logs Report - Next Gen Inergy - Confluence (atlassian.net)
  - Trigger Get Meter Status Trigger Get Meter Status Report - Next Gen Inergy - Confluence (atlassian.net)
  - Trigger Get Settings Trigger Get Settings Report - Next Gen Inergy - Confluence (atlassian.net)

Next delivery sprint features

The scope of **development and discovery** work for the next sprint will include the following features:

Feature/Story	Status	Team
Meters Management	In Progress	Zebra
PaymentsGateway	In Progress	Zebra
LegacyInergyIntegration	In Progress	Zebra
TicketsEngine	In Progress	Zebra
Foundation and Automation work	In Progress	Zebra

Q&A

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