

# for fetching Errors from DP+ platform using Kibana and Grafana Applications



## **Version Control**

Document Name	Version	Date
SOP for for fetching Errors from DP+ platform using Kibana and Grafana applications	V1.0	01-07-2022

Prepared by	Technical Support Services	01-07-2022
Approved by	Saji Krishnan	Saji Krishnan

# **Revision History**

Issue	Date	Reason for change
V1.0	01-07-2022	First Release

25 August 2022 Classification: Internal Page 2 of 12

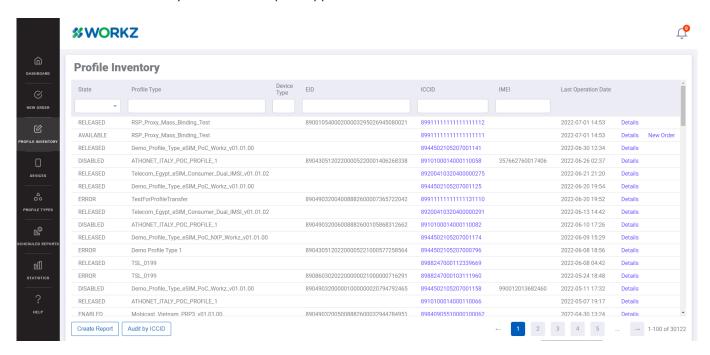


### Introduction

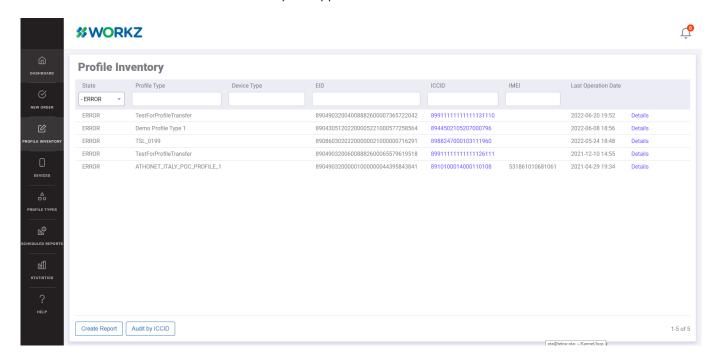
This document outlines the standard procedure for fetching errors from DP+ platform using Kibana and Grafana applications

### **Procedure**

- 1. Open the MNO platform instance in which errors need to be checked.
- 2. Go to "Profile Inventory" section. Example snippet below-



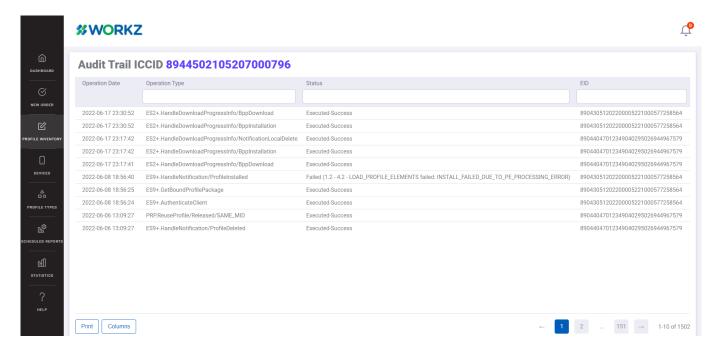
3. Filter "State" and select "ERROR". Example snippet below-



25 August 2022 Classification: Internal Page 3 of 12



4. Select the ICCID which needs to be investigated and go in its Audit Trail. Example snippet below-

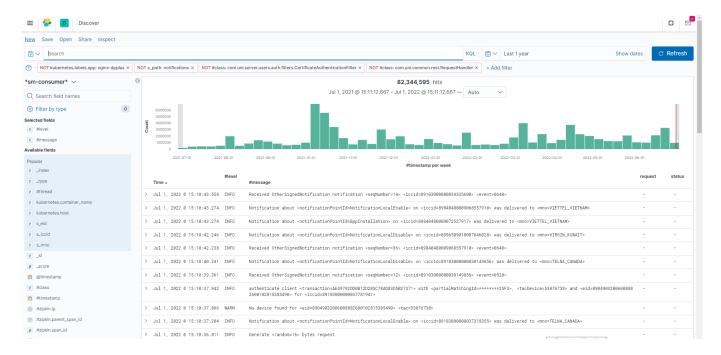


- 5. Check the reason of error in Audit trail.
- 6. Some types of error and next resolution steps on same:
  - a. Failed (1.2 4.2 LOAD\_PROFILE\_ELEMENTS failed: INSTALL\_FAILED\_DUE\_TO\_PE\_PROCESSING\_ERROR) Next step check Profile Installation result in Kibana logs to understand the profile element block which is causing the error.
  - b. Failed (1.2 4.2 LOAD\_PROFILE\_ELEMENTS failed: INSTALL\_FAILED\_DUE\_TO\_DATA\_MISMATCH)
     Next step check the data provisioned in platform and data in electrical profile.
     Ex: GID values in platform metadata and in profile should match.
     ICCID value in profile header ICCID and EF\_ICCID should match.
     MCC-MNC value in platform metadata should match with MCC-MNC in EF\_IMSI in profile.
  - c. Failed (8.8.5 6.4 The maximum number of retries for the Profile download order has been exceeded.) Next step check with customer and if they want the profile to be reusable again, put it in RELEASED state.
  - d. Failed (1.2 4.2 CONFIGURE\_ISDP failed: INSTALL\_FAILED\_DUE\_TO\_INTERRAPTION) Next step – check Profile Installation result in Kibana logs to understand the profile element block which is causing the error.
- 7. For errors to be further investigated in Kibana, open Kibana platform. Credentials below:
  - a. Kibana Dubai http://10.6.3.113:5601
  - b. Kibana France http://10.228.5.10:5601
  - c. Kibana US http://10.147.5.10:5601

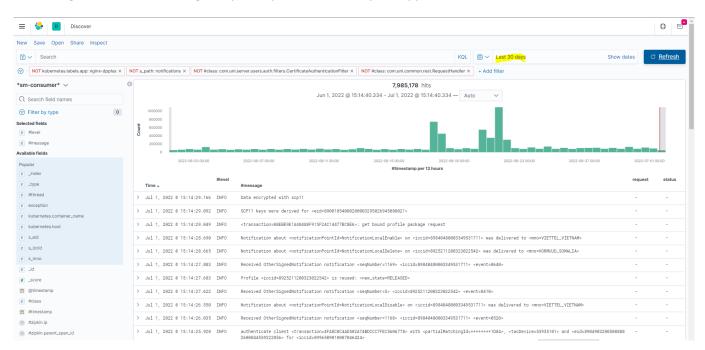
25 August 2022 Classification: Internal Page 4 of 12



### 8. Kibana landing page –

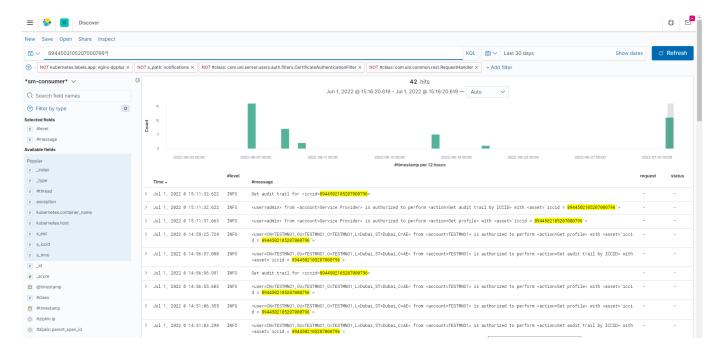


### 9. Change the duration (of logs) as per requirement. Example snippet below:

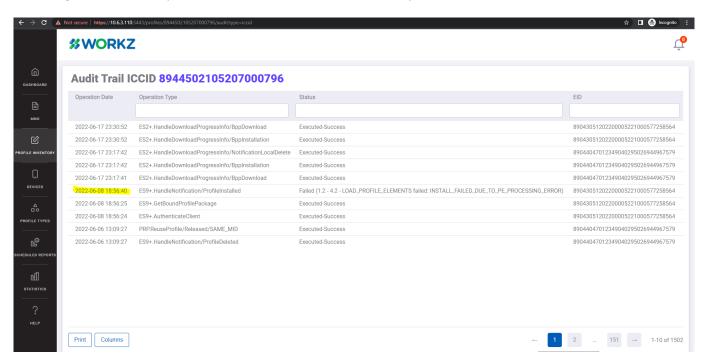




10. Enter the ICCID ending with '\*' which needs to be investigated in Search tab. Ex: to investigate ICCID "8944502105207000796" enter 8944502105207000796\*. Snippet below:



11. Navigate to timestamp at which error has occurred. Timestamp can be taken from audit trail.

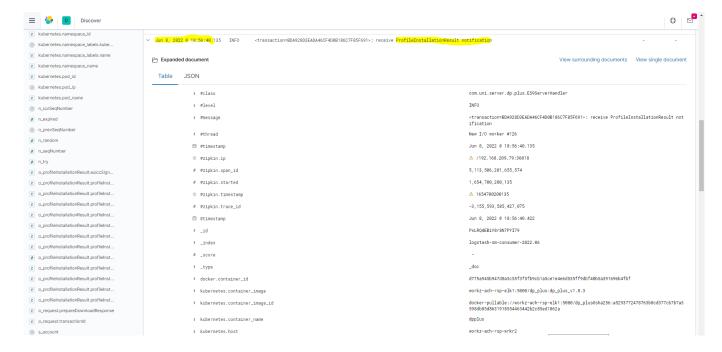


25 August 2022 Classification: Internal Page 6 of 12





### 12. Find "ProfileInstallationResult notification" and expand the same.



25 August 2022 Classification: Internal Page 7 of 12



13. Fetch "profileInstallationResultData.errorResult.simaResponse" and "profileInstallationResultData.finalResult".



14. Parse "profileInstallationResultData.errorResult.simaResponse" and identify the reason of error and profile element block causing the same.

Ex: profileInstallationResultData.errorResult.simaResponse = 300FA00B30098001038101048301478100

```
A2 1B
A1 19
80 01 05
81 01 0C – '0x0C' is Error Reason
82 11
30 0F
A0 0B
30 09
80 01 03 - '0x03' is SIMalliance error status
81 01 04 - '0x04' is pe element that is causing issue
83 01 47
81 00
```

Error reason snippet from SGP.22 -

25 August 2022 Classification: Internal Page 8 of 12



```
ErrorReason ::= INTEGER {
  incorrectInputValues(1),
  invalidSignature(2),
  invalidTransactionId(3),
  unsupportedCrtValues(4),
  unsupportedRemoteOperationType(5),
  unsupportedProfileClass(6),
  scp03tStructureError(7),
  scp03tSecurityError(8),
  installFailedDueToIccidAlreadyExistsOnEuicc(9),
  installFailedDueToInsufficientMemoryForProfile(10),
  installFailedDueToInterruption(11),
  installFailedDueToPEProcessingError
  installFailedDueToDataMismatch(13),
  testProfileInstallFailedDueToInvalidNaaKey(14),
  pprNotAllowed(15),
  installFailedDueToUnknownError(127)
```

SIMAlliance error status in PEStatus snippet from SGP.22

SIMalliance error status in PEStatus	ErrorReason <b>in</b> ErrorResult
pe-not-supported(1)	installFailedDueToPEProcessingError(12)
memory-failure(2)	installFailedDueToPEProcessingError(12)
bad-values(3)	installFailedDueToPEProcessingError(12)
not-enough-memory(4)	installFailedDueToInsufficientMemoryForProfile(10)
invalid-request-format(5)	installFailedDueToPEProcessingError(12)
invalid-parameter(6)	installFailedDueToPEProcessingError(12)
runtime-not-supported(7)	installFailedDueToPEProcessingError(12)
lib-not-supported(8)	installFailedDueToPEProcessingError(12)
template-not-supported(9)	installFailedDueToPEProcessingError(12)
feature-not-supported(10)	installFailedDueToPEProcessingError(12)
unsupported-profile-version(31)	installFailedDueToPEProcessingError(12)
Other SIMalliance status codes except (0)	installFailedDueToPEProcessingError(12)

Meaning of SIMalliance error status snippet from TCA eUICC technical specification:

25 August 2022 Classification: Internal Page 9 of 12



The status can take the following values:

- ok: used at the end of the Profile download and installation in order to indicate that the Profile has been successfully processed by the eUICC. This status shall not be sent for all the PEs but only at the end of the Profile installation. When using this status code, the eUICC shall not indicate any identification of a PE.
- PE-not-supported: indicates that a specific PE identified by its identification number is not supported by the eUICC. If this PE was indicated as "mandated" in the PE header, this status is an error status and the processing of the Profile was aborted. Otherwise this is just a warning and the installation of the Profile continues.
- memory-failure: indicates a failure during the installation of the Profile due to internal memory issue.
- bad-values: indicates that a least one value in the PE identified by its identification number is out
  of acceptable value range.
- not-enough-memory: indicates that the eUICC does not have enough free memory to install the Profile. This status is an error status and the processing of the Profile was aborted.
- invalid-request-format: indicates that the order of the PEs is invalid or a structure in a PE is
  unknown or badly formatted. It is not required that the eUICC is able to detect and reject all the
  incorrect order of the PEs or all invalid formats.
- invalid-parameter: indicates that a parameter in a PE description is not supported.
- runtime-not-supported: indicates that the runtime environment required by the application present in a PE-Application is not supported by the eUICC.
- lib-not-supported: indicates that a library required by the application present in a PE-Application is not available in the eUICC.
- template-not-supported: indicates that the template indicated by the OBJECT IDENTIFIER in the Generic File System Template PE is not available in the eUICC.
- feature-not-supported: indicates that a feature included in the PE is not supported by the eUICC.
- unsupported-profile-version: indicates that the major version indicated in the Profile header is not supported by this eUICC. This status is an error status and the processing of the Profile was aborted.
- 15. Understand the error reason and block number causing the same. Check that specific profile element block in ASN.1 definition and investigate the cause and resolution of issue.
- 16. The errors can also be filtered using Grafana platform.

Dubai - http://10.6.3.115:3000

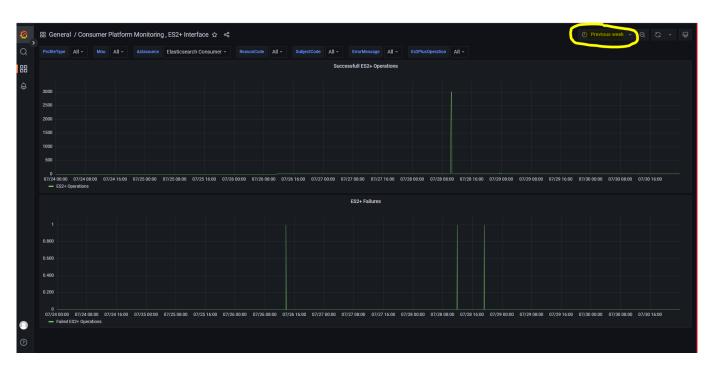
- 17. Select "Dashboards" and enter the appropriate dashboard for fetching the errors. The 2 options available are:
  - a. Consumer Platform Monitoring, ES2+ Interface
  - b. Consumer Platform Monitoring, ES9+ Interface
- 18. Snippet of ES2+ is shown below.

25 August 2022 Classification: Internal Page 10 of 12





19. The time frame can be selected using filtering option. See snippet below.



20. The error can be filtered from various filtering options present in the GUI. See snippet below.

25 August 2022 Classification: Internal Page 11 of 12
Doc ID: e093d2e902c1dc32875347465f87887bc3292f7c





21. Snippet of ES9+ is shown below.



22. The errors can be filtered based on various options available.



TITLE SOP\_for\_fetching\_Errors\_from\_DP+\_platform\_using\_Kibana\_and\_G...

FILE NAME SOP\_for\_fetching\_...cations\_v1.0.docx

**DOCUMENT ID** e093d2e902c1dc32875347465f87887bc3292f7c

AUDIT TRAIL DATE FORMAT DD / MM / YYYY

**STATUS** • Signed

# Document history

O5 / 09 / 2022 Sent for signature to Saji Krishnan

SENT 10:01:33 UTC+4 (saji.krishnan@workz.com) from tss@workz.com

IP: 94.200.229.6

O5 / 09 / 2022 Viewed by Saji Krishnan (saji.krishnan@workz.com)

VIEWED 11:00:06 UTC+4 IP: 86.99.233.49

<u>▶</u> **05 / 09 / 2022** Signed by Saji Krishnan (saji.krishnan@workz.com)

SIGNED 11:02:22 UTC+4 IP: 86.99.233.49

7 05 / 09 / 2022 The document has been completed.

11:02:22 UTC+4