Hi Shrikant,

As discussed, sharing the refined MoM with action items reviewed internally.

Thanks & regards,

Resham Chugani

Business Analyst

**From:** Resham Chugani   
**Sent:** Wednesday, December 12, 2018 4:37 PM  
**To:** Shrikant Karwa <[shri@mosip.io](mailto:shri@mosip.io)>; Ramesh Narayanan <[ramesh@mosip.io](mailto:ramesh@mosip.io)>; Anadi Mishra <[mishra.anadi@gmail.com](mailto:mishra.anadi@gmail.com)>; Krishnan Rajagopalan <[krish@mosip.io](mailto:krish@mosip.io)>  
**Cc:** Shravan Poorigali <[Shravan.Poorigali@mindtree.com](mailto:Shravan.Poorigali@mindtree.com)>; Romila Mattu <[Romila.Mattu@mindtree.com](mailto:Romila.Mattu@mindtree.com)>; MOSIP BA <[Mosip.Ba@mindtree.com](mailto:Mosip.Ba@mindtree.com)>; Gita Vittal Rao Phutane <[Gita.Phutane@mindtree.com](mailto:Gita.Phutane@mindtree.com)>  
**Subject:** MoM: Seeking Conference Call with GoM <12-Dec-18>

Hi All,

PFB minutes of the meeting held pertinent to the above said subject.

Please feel free to amend/add information as required.

**Participants**:

Shrikant, Ramesh, Shravan, Rounak, Lalana and Resham

**Date/Duration**:

12-Dec-18/1 hour

**Document(s) Referred**:

1. Attached mail



**Action Items**:

* + - 1. GoM/PwC to provide:
         1. REQ/RES format of CNIE API (API Specs)
         2. Data points on number of times MOSIP should call CNIE
         3. Format of data sent from CNIE to MOSIP – Photo, Finger Print
         4. Sample CNIE Correction Packet to be provided
         5. REQ/RES format of EC system API
         6. Data points on number of times MOSIP should call EC system
         7. Flow chart of interaction between CNIE and MOSIP for *New Registration*
         8. Flow chart of interaction between CNIE and MOSIP for *Registration Update*
         9. Flow chart of interaction between EC and MOSIP for *New Registration of Child with EC vs. Manual Registration Number*
      2. GoM/PwC toconfirm:
         1. GoM to confirm if the law permits other entities like MOSIP to store/utilize any biometric modality (Finger print, Iris, Face, any other)
         2. Finger print should not be used for deduplication – GoM to evaluate having a separate API to send biometrics to MOSIP (Finger Print)
      3. MOSIP to identify:
         1. Flow in case of correction received from CNIE - Following a different flow by skipping certain validations (Machine/Center mapping, OSI Validation, CNIE interface check)
         2. Process if CNIE number is not found in CNIE DB – Reject packet?

**Points Discussed**:

1. *CNIE System Integration with MOSIP*:
2. CNIE is a GoM owned system containing Finger Prints & some demographic data of resident above Age 18, issuing IDs
3. CNIE integrates with Cogent ABIS – Four fingers are captured live and all 10 fingers through an offline scan
4. As per GoM Law, an applicant should either hold a CNIE number or EC Number or Manual Registration Number

Adult in Morocco is provided CNIE number

Child in Rabat is provide EC number

Child outside Rabat is provided a Manual Registration Number

1. *Registration Packet Processing*:
2. MOSIP to call CNIE
3. CNIE to send CNIE Number/Gender/DoB/Proof of Data Update - Optional (Document)
4. If CNIE number is not found in CNIE DB – Process to be identified
5. If details don’t match - MOSIP will place these packets in a queue for manual verification/data override. Manual Verification screens will not be provided by MOSIP and should be implemented by SI.

* The correction data received in this case will be sent by CNIE to MOSIP, by way of an encrypted Correction/Update packet, based on MOSIP defined packet format
* The correction packet should be marked as “CNIE Verified”
* Correction Packet received from CNIE should comprise of data that was updated only, based on the packet format defined by MOSIP [Optionally along with proof of data update - Document]
* MOSIP will process this packet with updated data received and consider the non-updated data as per original packet
* The re-processing will be from stage 1 (Virus Scan) as a new registration, following a different flow by skipping certain validations (Machine/Center mapping, OSI Validation, CNIE interface check) -
* The flow needs to be identified and fixed by MOSIP, based on sample packet provided by GoM/PwC

1. If details match - CNIE will respond with Face/First Name/Last Name/Finger Print/Photo
2. CNIE API to accommodate standard formats of images captured, as defined by MOSIP
3. MOSIP to use Iris/Face for deduplication

* If no duplicate found, UIN is successfully generated, MOSIP to store the Finger Print in MOSIP ID Repository (Auth gallery)
* If duplicate found and UIN is not generated, Finger Print should not be stored in MOSIP ID Repository (Auth gallery)

1. Packet(s) received through CNIE will not be merged with the original registration packet
2. As a principle, MOSIP will maintain the sanctity of data captured and maintain the uniqueness of the data
3. SI can utilize the MOSIP *Registration Client* API for packaging correction/update packet, as required
4. *SDK Procurement*:
5. SDK for extraction of FP minutiae to be procured by SI
6. *Authentication*:
7. FP stored in MOSIP ID Repository will be utilized by GoM for authentication only
8. The law allowing other entities like MOSIP storing/utilizing the FP – To be confirmed by GoM
9. FP should not be used for deduplication – GoM to evaluate have a separate API to send biometrics
10. *Various Approaches*:
11. Approach I – Not required
12. Approach II – FP minutiae received from CNIE and stored in ID Repository for authentication
13. *UIN Generator*:
    1. UIN generator should comprise of generation logic based on specific business rules
    2. This generator should not be part of IDMS, but technically placed outside IDMS
    3. MOSIP to expose an interface to be consumed by external systems for generation of UIN numbers
    4. The UIN already in use should not be reused
    5. SI should port the existing numbers in use, to MOSIP generator
    6. *Child Registration*:
       1. In case of Child, a child has a UIN number (EC Number) allocated by EC System (Using MOSIP UIN generator)
       2. For new registration vide MOSIP, system should allow input of this UIN number
       3. If a Child has the UIN number allocated through EC system, then in MOSIP:
          1. SI should port the existing numbers allocated in EC system as blocked/allocated in MOSIP UIN generator, so that numbers already in use are not re-allocated to child applicants registering in MOSIP
          2. Child should be allowed to register on MOSIP as a new registration
          3. Child should not be allocated with a new UIN number
          4. During registration on MOSIP Registration Client, MOSIP should enable flagging the Child applicant to have an existing UIN from EC System
          5. During packet processing, MOSIP to integrate with EC System to validate data (As per CNIE process)
          6. In case of successful processing, no new UIN number should be allocated to the Child – Instead the same UIN (EC Number) should be tagged to the Child
       4. If a Child does not have a UIN number allocated through EC system, then the child applicant should mandatorily provide a *Manual Registration Number*, then in in MOSIP:
          1. Child should be allowed to register on MOSIP as a new registration, vide a regular new registration flow and a new UIN should be allocated to the Child applicant
14. *EC System Integration*:
    1. MOSIP to expose an API to EC system, to provide a unique number
    2. For a child applicant that does not have a UIN number allocated through EC system, but holds a *Manual Registration Number,* MOSIP should allow to communicate back to the EC System with the demographic data of the applicant
    3. During packet processing, MOSIP to integrate with EC System to validate data (As per CNIE process)
15. *ABIS Procurement*:
    1. ABIS is anticipated to be procured by end of March’18

Thanks & regards,

Resham Chugani

Business Analyst

-----Original Message-----  
From: El Alami Omar <[oelalami@interieur.gov.ma](mailto:oelalami@interieur.gov.ma)>   
Sent: Wednesday, December 12, 2018 12:55 PM  
To: [shri@mosip.io](mailto:shri@mosip.io)  
Cc: Gouverneur Directeur des Systèmes d'Information et de Communication <[aharrak@interieur.gov.ma](mailto:aharrak@interieur.gov.ma)>; [bharat.x.nanawati@in.pwc.com](mailto:bharat.x.nanawati@in.pwc.com); Romila Mattu <[Romila.Mattu@mindtree.com](mailto:Romila.Mattu@mindtree.com)>; Benomar Amina <[ABenomar@interieur.gov.ma](mailto:ABenomar@interieur.gov.ma)>; El Ouali Aboulaich Achraf <[aaboulaich@interieur.gov.ma](mailto:aaboulaich@interieur.gov.ma)>; TAYEB Wifak <[WTAYEB@interieur.gov.ma](mailto:WTAYEB@interieur.gov.ma)>; Resham Chugani <[Resham.Chugani@mindtree.com](mailto:Resham.Chugani@mindtree.com)>; Shravan Poorigali <[Shravan.Poorigali@mindtree.com](mailto:Shravan.Poorigali@mindtree.com)>; [ramesh@mosip.io](mailto:ramesh@mosip.io)  
Subject: RE: Seeking Conference Call.

\* This e-mail originated outside of Mindtree. Exercise caution before clicking links or opening attachments \*

Ok Thank you

We Will use it

Envoyé avec BlackBerry Work([www.blackberry.com](http://www.blackberry.com)) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ De : Shrikant Karwa <[shri@mosip.io](mailto:shri@mosip.io)> Envoyé : 12 déc. 2018 6:05 AM À : El Alami Omar <[oelalami@interieur.gov.ma](mailto:oelalami@interieur.gov.ma)> Cc : Gouverneur Directeur des Systèmes d'Information et de Communication <[aharrak@interieur.gov.ma](mailto:aharrak@interieur.gov.ma)>; [bharat.x.nanawati@in.pwc.com](mailto:bharat.x.nanawati@in.pwc.com); Romila Mattu <[Romila.Mattu@mindtree.com](mailto:Romila.Mattu@mindtree.com)>; Benomar Amina <[ABenomar@interieur.gov.ma](mailto:ABenomar@interieur.gov.ma)>; El Ouali Aboulaich Achraf <[aaboulaich@interieur.gov.ma](mailto:aaboulaich@interieur.gov.ma)>; TAYEB Wifak <[WTAYEB@interieur.gov.ma](mailto:WTAYEB@interieur.gov.ma)>; Resham Chugani <[Resham.Chugani@mindtree.com](mailto:Resham.Chugani@mindtree.com)>; Shravan Poorigali <[Shravan.Poorigali@mindtree.com](mailto:Shravan.Poorigali@mindtree.com)>; Ramesh Narayanan <[ramesh@mosip.io](mailto:ramesh@mosip.io)> Objet : Re: Seeking Conference Call.

The Dial In details for the call are:

Bridge Details:

India Toll Free : 1800 120 1331(Toll free India) / +91-7045671331 (India)

Guest code      :  8857221##

Regards

Shri

On Wed, Dec 12, 2018 at 8:56 AM Shrikant Karwa <[shri@mosip.io<mailto:shri@mosip.io](mailto:shri@mosip.io%3cmailto:shri@mosip.io)>> wrote:

Dear Mr El Alami,

Look forward to the call today.

1. Wanted to confirm the time - is it 2pm or 3pm IST. - pls confirm -both are okay with us. We will do the call for 90 min.

2. Will have the dial in detail sent

3. Sending the priority agenda we wish to discuss, which is currently bottling that mosip development.

  1.  CNIE/EC Integration - Data Enrichment Interface:

     \*   Touch points of integration with CNIE/EC and the expected flow of process (Data update etc..)

                                          i.   Registration Client - CNIE recording during registration of an individual - field level checks etc

                                        ii.   Registration Processor

  1.  Other aspects of Data Enrichment Interface:

     \*   FP minutiae extraction and placement in Auth gallery - Process

     \*   Demographic data update from CNIE

     \*   Process for first time information transmission prior to UIN generation vs subsequent changes sent post UIN generation

     \*   FP Authentication - Approach 1 and Approach 2 (Refer PG-36 of GoM FRS/Annexure D)

  2.  UIN Generation:

     \*   MOSIP scope and SI scope (SI / GoM / PwC may need to migrate data for the common NIU generator. MOSIP is committed to help, guide and review for the success of the program)

  3.  ABIS position in process flow. ABIS procurement status.

Look forward to the call.

Regards

Shri

On Thu, Dec 6, 2018, 9:26 AM Shrikant Karwa <[shri@mosip.io<mailto:shri@mosip.io](mailto:shri@mosip.io%3cmailto:shri@mosip.io)> wrote:

Dear Mr Alami,

Thanks Mr Alami. Lets do the call on Wednesday December 12, Does 2 pm IST (9:30am Morrocco time)  work for you.

Will circulate the point to discuss.

We need specific clarification for MOSIP development and will prioritise those, post that we can discuss open issues etc.

Kind Regards

Shri

From: El Alami Omar <[oelalami@interieur.gov.ma<mailto:oelalami@interieur.gov.ma](mailto:oelalami@interieur.gov.ma%3cmailto:oelalami@interieur.gov.ma)>>

Date: Thursday, 6 December 2018 at 1:24 AM

To: Shrikant Karwa <[shri@mosip.io<mailto:shri@mosip.io](mailto:shri@mosip.io%3cmailto:shri@mosip.io)>>

Cc: Gouverneur Directeur des Systèmes d'Information et de Communication <[aharrak@interieur.gov.ma<mailto:aharrak@interieur.gov.ma](mailto:aharrak@interieur.gov.ma%3cmailto:aharrak@interieur.gov.ma)>>, "[bharat.x.nanawati@in.pwc.com<mailto:bharat.x.nanawati@in.pwc.com>](mailto:bharat.x.nanawati@in.pwc.com%3cmailto:bharat.x.nanawati@in.pwc.com%3e)" <[bharat.x.nanawati@in.pwc.com<mailto:bharat.x.nanawati@in.pwc.com](mailto:bharat.x.nanawati@in.pwc.com%3cmailto:bharat.x.nanawati@in.pwc.com)>>, Arun Kumar Gurumurthy <[arun@mosip.io<mailto:arun@mosip.io](mailto:arun@mosip.io%3cmailto:arun@mosip.io)>>, Romila Mattu <[Romila.Mattu@mindtree.com<mailto:Romila.Mattu@mindtree.com](mailto:Romila.Mattu@mindtree.com%3cmailto:Romila.Mattu@mindtree.com)>>, Benomar Amina <[ABenomar@interieur.gov.ma<mailto:ABenomar@interieur.gov.ma](mailto:ABenomar@interieur.gov.ma%3cmailto:ABenomar@interieur.gov.ma)>>, El Ouali Aboulaich Achraf <[aaboulaich@interieur.gov.ma<mailto:aaboulaich@interieur.gov.ma](mailto:aaboulaich@interieur.gov.ma%3cmailto:aaboulaich@interieur.gov.ma)>>, TAYEB Wifak <[WTAYEB@interieur.gov.ma<mailto:WTAYEB@interieur.gov.ma](mailto:WTAYEB@interieur.gov.ma%3cmailto:WTAYEB@interieur.gov.ma)>>

Subject: RE: Seeking Conference Call.

Dear Mr Shrikant

Please note that we didn't forget your demand of conference call, but just we are occupied during this week by preparing the bilateral meetings with potential providers of biometric solutions for RNP. For the confcall, we suggest to you the Wednesday December 12, it is the only possibility  that we have for the next week. Please check and inform us if it'is ok.

Also, if we can have the points to be discussed to facilitate our conf call.

Regards

De : Shrikant Karwa [[mailto:shri@mosip.io<mailto:shri@mosip.io>](mailto:shri@mosip.io%3cmailto:shri@mosip.io%3e)]

Envoyé : mardi 4 décembre 2018 07:19

À : El Alami Omar <[oelalami@interieur.gov.ma<mailto:oelalami@interieur.gov.ma](mailto:oelalami@interieur.gov.ma%3cmailto:oelalami@interieur.gov.ma)>>

Cc : Gouverneur Directeur des Systèmes d'Information et de Communication <[aharrak@interieur.gov.ma<mailto:aharrak@interieur.gov.ma](mailto:aharrak@interieur.gov.ma%3cmailto:aharrak@interieur.gov.ma)>>; [bharat.x.nanawati@in.pwc.com<mailto:bharat.x.nanawati@in.pwc.com](mailto:bharat.x.nanawati@in.pwc.com%3cmailto:bharat.x.nanawati@in.pwc.com)>; Arun Kumar Gurumurthy <[arun@mosip.io<mailto:arun@mosip.io](mailto:arun@mosip.io%3cmailto:arun@mosip.io)>>; Romila Mattu <[Romila.Mattu@mindtree.com<mailto:Romila.Mattu@mindtree.com](mailto:Romila.Mattu@mindtree.com%3cmailto:Romila.Mattu@mindtree.com)>>

Objet : Seeking Conference Call.

Dear Mr Alami,

Request a conference call time to discuss specifically the process-flow relating to ID processing, deduplication & CNIE process flow.

Does Thursday 2pm IST work for you'll ?

Regards

Shri

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Best Wishes

Shri

+91-98200-69117