Annual Project Progress Report

Project title: Promoting the development of digital public services in Turkmenistan

Award ID: 00125269
Project ID: 00133053

Implementing partner: UNDP

Key National Partner: Ministry of Adalat (Justice) of Turkmenistan

Period covered in this report: 10 Aug 2021 -31 Dec 2021

Date of last Annual Report: N/A

Date of the last Project Board meeting: N/A

Regular meetings with Project team from MinJustice

Date of last Qaulity Assurance and rating: Highly Satisfactory, Feb 05, 2021

1.Project Performance

Please state the expected Output of the Project, set indicators and corresponding CP Outcome (as per project document/AWP):

Project Output 1:
A roadmap has been prepared for the implementation of a full-fledged digital system - the Unified Register of Civil Registry Office (ZAGS) on a national scale.
Output indicators:
Indicator number 4 - Preparation of a roadmap for the digitalization of public services of the civil registration system in collaboration with UNICEF CRVS project.
Output targets:
Target number 4 - A roadmap for the digitalization of public services of the civil registration system has been prepared in collaboration with UNICEF CRVS project.
b) Were the indicators and output achieved?   Yes ■   No□   Partially □
c) If no or partially, please explain why?
Project Output 2:
Pilot digital system - Unified Register of Civil Registry Office (ZAGS) tested and put into operation. A certain number of existing paper-based civil registration records have been digitized.
Output indicators
Indicator number 1 - Digitization of existing civil registration records
Indicator number 2 - The digital civil registration system
Indicator number 3 - National identification number

Output targets:

Target number 1 - Digitization of existing civil registration acts, for 1 etrap, for 3 months, for 3 different types of records Pilot digital system

Target number 2 - Launch a pilot digital system (software and hardware) for civil registration.

Target number 3 - The NIN is identified and used internally in the civil registry system.

b) Were the indicators and output achieved?   Yes ☐   No☐   Partially ■

c) If no or partially, please explain why? This outpout is still under progress and deadline is end of the project. 30 April 2022

2.<u>Progress Reporting</u>

Please summarize the main achievements during the project cycle:

Project Output 1: A roadmap has been prepared for the implementation of a full-fledged digital system - the Unified Register of Civil Registry Office (ZAGS) on a national scale.

A roadmap (Attachment-1) for the digitalization of public services of the civil registration system has been prepared by UNICEF with strong contribution from UNDP project manager, legal adviser and UNDP team. Roadmap was prepared under "2021 Annual Work Plan between the Ministry of Adalat of Turkmenistan and the United Nations Children's Fund (UNICEF) in Turkmenistan for the implementation of UNICEF Country Programme Document for Turkmenistan for the period of 2021-2025"(Attachment-2). Road map was prepared by international consultant Hosea Mital (Uganda) and was presented to Ministry of Adalat and other government agencies, and used by national partner to prepare their budget and plans for CRVS system development

Legal assessment (Attachment-3) has been conducted by under UNICEF project with a significant contribution by UNDP team (Shirin Ahmedova). Legal Review report has been submitted by international Consultant Nana Chapidze (Georgia) to Ministry of Adalat. Shirin Ahmedova (Technical Legal Adviser, UNDP) has prepared **draft** internal instructions and bylaws, as well as Presidential decree on "National ID" (Attachment-4, 5, 6, 7). Currently this draft proposal is under consideration by Ministry of Adalat and Ministry of Interior

Project Output 2: Pilot digital system - Unified Register of Civil Registry Office (ZAGS) tested and put into operation. A certain number of existing paper-based civil registration records have been digitized.

Hardware requirements has been identified. Has completed design of Datacenter (2 Racks, Primary and Backup site) for DIGITAL Civil Registration System. Conducted Procurement. Equipment is on the way.

Please check attachment 1 – Hardware Specification and Network Topology

Software requirements are identified. It was requested by national partner, Ministry of Adalat (Justice) to use TOR prepared by Ministry of Adalat as a base for our software development. Agree with National Partner on new software development modality (3 local experts + 1 international). Selection process for all expert is completed and expect PO to be completed by 12 December. There was several meetings with local civil registration office to identify all business process.

Market research carried out and suitable scanner equipment identified. TOR preparation and procurement in progress.As requested by national partner, due to previous experience we had narrod selection to scanning equipment with positive experience in CIS market to ensure compatibility.

To prove concept of this project, UNDP team has conducted hackathon among local software developers, which went very well and was covered in local and reginal digital media. It was successful event with over 50 local software developers and support from local business community, 9 local companies, whose overall contribution was 4000 USD

https://twitter.com/UNDPEurasia/status/1426228759699628034

Under this project, UNDP is also providing over 50 days of training for IT team from Ministry of Adalat (Justice), Ministry of Health, Civil Registration Office (total 10 people) on system administration based on Cisco Certified Network Associate program. Upon successful completion of the course, we expect participants to attempt to Cisco Certification Test and receive internationally accepted professional certificate.

3. Project Risks and Issues

The project Risk Log is maintained throughout the project implementation to capture potential risks to the project and associated measures to mitigate risk.The Project Manager shall maintain and update the Risk Log and ensure that risks are identified, communicated and managed effectively.

A number of potential risks are listed below.

Description of risk	Type and category	Risk management actions	Current situation
Lack of coordination between different government bodies	Political/Goverment Commitment	1- Close cooperation and well information with all parties involved 2- Develop interest at all parties involved	Can observe partial lack of coordination between different government agencies.
Insufficient knowledge and understanding of national partners in terms of introduction of digital public services	Operational/Capacity development of the national partners	Extensive consultations with national partners involving in national expertise	Observing improvement in understanding of digital public services
Lack of time to complete the project	Others	1 - I carefully monitor the issues of equipment and services delivery.	Can observe some minor delay in project completion

		2 - Close cooperation with the procurment dept and PIU	

4.Lessons learned and follow-up steps (if applicable)

a) Please provide the lessons learned and further steps after the project's closure.

- There is a potential to grow competency level on managment and technical team of National parteners. For future project it will be good practice, to identify activities and responsibilities of nationla partners in AWP.
- Long procurment processes. For futute projects it will be good idea to prepare TORs for LC and IE, as well as equipment before AWP is approved, to start procurment processes earlier.

5.Transfer of Assets or other related matter

a) Please state on any past or future transfer of assets made within the project cycle (Attach list of equipment, cooperation frameworks with beneficiaries, etc.)

N/A

6.Financial management

Budget item	Total approved in 2021 (in USD)	Expenses + commitments	Budget utilization in % to planned
Component 1	289	289	100
Component 2	192,836	113,511	59
Project management	28,798	23,431	81
Total delivery in 2021	221,923	137,231	62
In % to total project budget	359,797	137,231	38%

Prepared by: Farhad Artykov, Project Manager

Date: 7 Dec 2021

 Approved by: Akmyrat Danatarov, Programme Specialist

Date:

Attachment 1 – Hardware Specification and Network Topology

#	Product Description	Quantity
1	RRF project:Dell PowerEdge R440 Rack Server Type: Dual socket Rack Server Processor: 2xIntel Xeon Silver 4216 (2.1GHz, 2400Mhz, 22M Cache) Memory: 4x32GB RDIMM, 3200MT/s, Dual Rank 8Gb BASEv Video: Onboard RAID: RAID-1 Because there are 2x SSDs Hard Drive: 2x480Gb SSD, Hot-plug Network: Broadcom 5720 Dual Port 1GbE BASE-T Adapter, PCIe Full Height + Dual-Port 1GbE On-Board LOM Internal Optical Drive: DVD +/-RW, SATA, Internal Power Supply: Dual, Hot Plug, Redundant Power Supply (1+1), 550W Rack Rails: Sliding Rails with Cable Management Arm Operating System: Windows Server 2019 Standard Warranty: 3 years	5
2	RRF PROJECT: PLA43039 Data Centre Cabinet - Users: RRF project - 2. 2 Dell Netshelter SX 42U Rack Rack Size: 19" Height: 42U 600mm Wide x 1070mm Deep Includes: Rack casters kit, rack levelling feet, side panels, front door, adjustable vertical mounting rails, keys, split perforated rear door, baying hardware Cable management arm, slide rails and all necessary cable are included. The following is also Included: 2. Roof Fan Tray, Included 3. Rack PDU, vertical: Please See Below.2 Dell DKMMLED185-001 KMM Console Keyboard, Monitor, Mouse 1U Rackmount 18.5" LED Console HD (1366 x 768) Screen with VGA Connection Integrated Keyboard and Touchpad, 2x Mouse Buttons 2x USB 3.0 Ports 1 Year Warranty 2 Dell DAV2108 KVM Switch 8 Port Switch 2 APC Rack PDU, Basic, Vertical 220-240V, 32A Nominal Output Voltage: 230V Overload Protection: Yes Maximum Total Current Draw: 32A Nominal Output Voltage: 230V Output Connections: 20x IEC 320 C13, 6x IEC 320 C19 Cord Length: 3m. Acceptable Input Voltage: 200-240VAC Warranty: 1 year.	2
3	RRF PROJECT: Dell EMC NX3240 Storage Array Processor: 1xIntel Xeon Bronze 3204 1.9G, 6C/6T, 9.6GT/s, 8.25M Cache, No Turbo, No HT (85W) DDR4-2133 Memory: 16GB (2x8GB RDIMM, 3200MT/s, Single Rank) Form factor: Rack-mountable 2U Internal Drive Support: Chassis with up to 12 x 3.5" HDDs on BP, 4 x 3.5" HDDs on MP and 2 x 3.5" HDDs Flexbay, 1 and 2CPU Configuration Network Ports: Broadcom 5720 Quad Port 1GbE BASE-T, rNDC Power: Dual, Hot-plug, Redundant Power Supply (1+1), 750W RAID levels: Raid 5 Configuration Operating Systems: Microsoft® Windows Storage Server 2016, Standard Edition Installed storage: 8TB 7.2K RPM SAS 12Gbps 512e 3.5in Hotplug Hard Drive + 600GB 10K RPM SAS 12Gbps 512n 2.5in Flex Bay Hard Drive, 3.5in HYB CARR (The Requested Configuration was not compatible with Quoted Hardware. This is the Closest Available Option)	1
4	RRF PROJECT: Dell EMC NX3240 Storage Array Processor: 1xIntel Xeon Bronze 3204 1.9G, 6C/6T, 9.6GT/s, 8.25M Cache, No Turbo, No HT (85W) DDR4-2133 Memory: 16GB (2x 8GB RDIMM, 3200MT/s, Single Rank) Form factor: Rack-mountable 2U Internal Drive Support: Chassis with up to 12 x 3.5" HDDs on BP, 4 x 3.5" HDDs on MP and 2 x 3.5" HDDs Flexbay, 1 and 2CPU Configuration Network Ports: Broadcom 5720 Quad Port 1GbE BASE-T, rNDC Power: Dual, Hot-plug, Redundant Power Supply (1+1), 750W RAID levels: 5 Configured Operating Systems: Microsoft® Windows Storage Server 2016, Standard Edition Installed storage: 4x 12TB 7.2K RPM NLSAS 12Gbps 512e 3.5in Hot-plug Hard Drive + 600GB 10K RPM SAS 12Gbps 512n 2.5in Flex Bay Hard Drive, 3.5in HYB CARR (The Requested Configuration was not compatible with Quoted Hardware. This is the Closest Available Option)	1

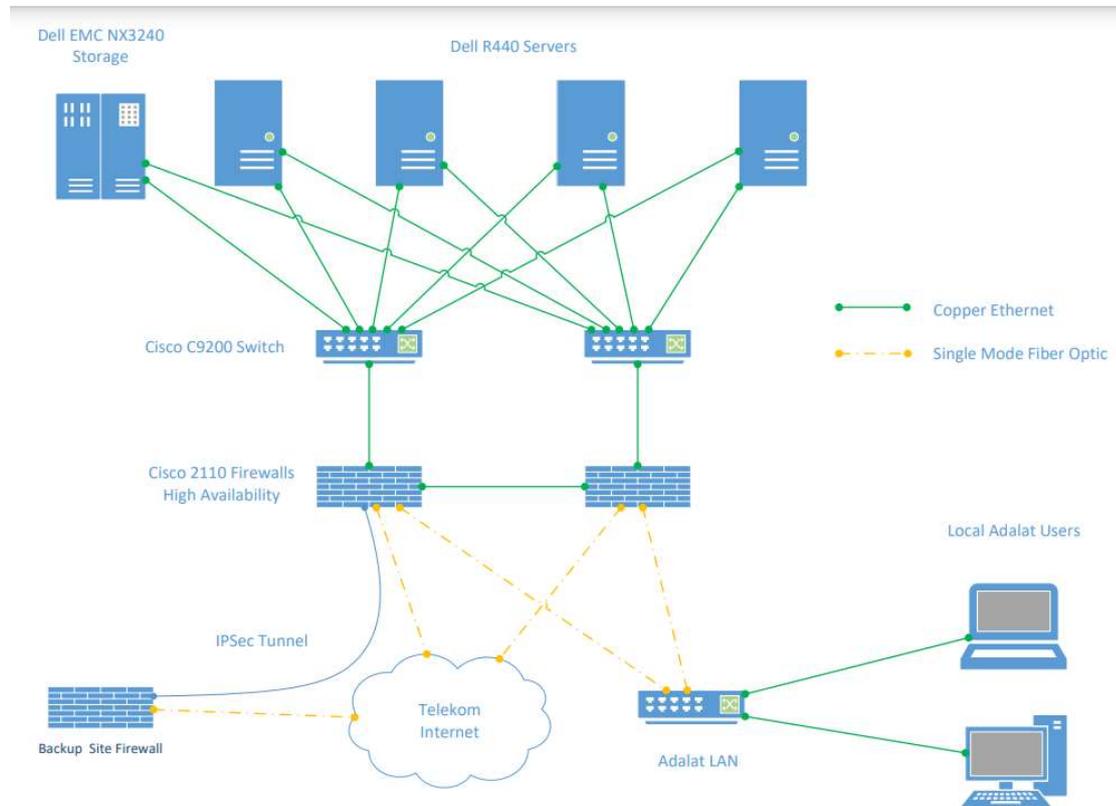|		
5	RRF PROJECT: PLA40942 Cisco Catalyst C9200-24P-E Bundle 3 Cisco Catalyst 9200 24-Port PEO+ Switch, Essentials P/N C9200-24P-E Kindly note that the requested C2960X series will no longer be sold as of next month: https://www.cisco.com/c/en/us/products/collateral/switches/ catalyst-2960-x-ser ies-switches/eos-eol-noticec51- 744432.html Therefore we have proposed an alternative more cost effective switch but with slightly lower capacity. The capacity is 128 Gbps (288Gbps with stacking) for C9200-24P. Kindly refer to the link for more info: https://www.cisco.com/c/ en/us/products/collateral/switches/catalyst-9200-seriesswitches/ nb-06-cat9200-ser-data-sheet-cte-en.html 3 Cisco SmartNET Catalyst C9200 24-Port CON-SNT-C920024P 8 x 5 x NBD Support, 1 Year 3 Catalyst 9200 4 x 1G Network Module PN: C9200-NM-4G Catalyst 9200 4 x 1G Network Module Kindly note that UNDP specified 4 x 1G SFP+. SFP+normally indicates 10G. But we have quoted 1G. 3 Cisco C9200 DNA Essentials, 24-port, 3 Year Term License P/N C9200-DNA-E-24-3Y	3
6	RRF PROECT : PLA42978 Firewall with SFP Transceiver 3 Cisco Firepower 2110 NGFW Appliance, 1U PN: FPR2110-NGFW-K9 3 Cisco SMARTnet Extended Service PN: CON-SNT-FPR21FWN 8 x 5 x NBD Support, 1 Year. 3 Cisco SFP Module PN: GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM Kindly note that the requested model FPR2110 does not support redundant power supply. The specs are conflicting. If this is a requirement, Cisco Firepower 2130 NGFW Appliance, 1 U has redundant power supply: PN: FPR2130-NGFW-K9 SMARTnet PN: CON-SNT-FPR2130W FirePower Power Supply PN: FPR2K-PWR-AC-400 SFP Transceiver Module PN: GLC-LH-SMD	3
7	RRF PROJECT: PLA42981 5kVA Rack mountable UPS. 2 APC Smart-UPS 5000VA RM 230V. Out. Power Capacity: 4.5 KW / 5.0 kVA Max Config. Power: 4.5 KW / 5.0 kVA Nominal Out. Voltage: 230V Nominal Input Voltage: 230V Efficiency (Full Load) : 90% Input Frequency: 47-63 Hz Syncs to Mains Input vol. range: 100 - 275 Adjustable (half load), 160 - 275V Battery Type: Maintenance-free Lead-Acid battery with suspended electrolyte: leak-proof Typical recharge time: 1.5 hours (Not Including External Battery Pack) Interface Port(s): RJ-45 10/100 Base-T, RJ-45 Serial, Smart-Slot, USB Control panel: Multi-function LCD status and control console Extended Run Options: Additional external battery module. (1x Additional Battery Pack Per UPS Below)Warranty: 3 years. 2 APC Smart-UPS SRT 192V RM Battery Pack 3U RBC Quantity: 2.	2

Figure 1 Primary Site

Dell EMC NX3240 Storage

Dell R440 Servers

Cisco C9200 Switch

Copper Ethernet

Single Mode Fiber Optic

Cisco 2110 Firewalls High Availability

Local Adalat Users

IPSec Tunnel

Backup Site Firewall

Telekom Internet

Adalat LAN

Figure 2 backup Site

Dell EMC NX3240 Storage

Dell R440 Server

Cisco C9200 Switch

Copper Ethernet

Single Mode Fiber Optic

Cisco 2110 Firewall

Local Users

IPSec Tunnel

Primary Site Firewall

Telekom Internet

Local LAN