**Reneal 2023A Box and Project Notes**

**Version 1**

Miscellaneous Notes

1. Ten new schools:
   1. Moshono, Naura, Oloasiti in Arusha CC
   2. Moita in Monduli DC
   3. Bihawana in Dodoma MC
   4. Dareda, Ayagaya, and Gorowa in Babati DC
   5. Nkoasenga in Meru DC
   6. Florian in Karatu CC
2. VERY IMPORTANT: Moita replaced Welwel after the boxes were packed and labeled. So all of the equipment labeled as “Welwel” should go to Moita. **THE MOITA SERVER MUST HAVE A NEW VPN FILE PUT IN THE SERVER BEFORE IT IS TAKEN TO THE SCHOOL**. Neal will send a runner file to do that update.
3. Terrawatu is donating money for the UPS, voltage stabilizer, and UTP cable for the Moshono lab. So the donation letter for Moshono will be different, it will be for both Reneal and Terrawatu. The updated donation letters for Moshono SS are in an envelope taped on the top of Box AA. Please throw away the old letters that are inside the Moshono sys admin manual and use the new letters. Boris from Terrawatu will sign the letters. Reneal, Terrawatu, and the school each receive a copy of the signed Moshono letter.
4. Please collect any equipment donated by Apto that has failed and save it at the RO. I will troubleshoot it when we come in September. We must return any dead items to Apto Solutions for recycling if we cannot fix them.
5. I reused one packing box from last year (Box U), so ignore the writing on it. It contains 6 monitor screens.

Summary of Box Contents

1. Here is the organization of the boxes:
   1. Boxes A-T have laptops/adapters/mice, and a keyboard for each of the 10 new schools. There are ten laptops in each box, and there are two boxes per new school (total of 20 boxes).
   2. Box U has 6 monitor screens.
   3. Box V has 1 monitor screen, 8 monitor stands, and 6 spare keyboards for Ashura’s warehouse.
   4. Box FF has 3 monitor screens, 2 monitor stands, and Team supplies.
   5. Boxes AA, BB, CC, DD, and EE have the following:
      1. Servers and network switches for the 10 new schools (two per box).
      2. The power cable for the server and the sys admin manual are inside each server box. Two copies of the donation letter are inside the sys admin manual. PLEASE NOTE: There are updated donation letters for Moshono SS taped on the top of Box AA, since it is a joint Reneal-Terrawatu lab. Please have Boris from Terrawatu and the school sign those new letters, and throw away the old letters in the Moshono sys admin manual. Reneal, Terrawatu, and the school each receive a copy of the signed Moshono letter.
      3. The monitor base and power cable and VGA cable for the monitor are in the same boxes as the servers.
2. Monitor labels:

| **School** | **Monitor Label** | **Monitor Base and Cables** | **Monitor Screen** | **Monitor Stand** |
| --- | --- | --- | --- | --- |
| Moshono | A | Box AA | Box U | Box V |
| Naura | B | Box AA | Box U | Box V |
| Oloasiti | C | Box BB | Box U | Box V |
| Welwel/Moita | D | Box BB | Box U | Box V |
| Bihawana | E | Box CC | Box U | Box V |
| Dareda | F | Box CC | Box U | Box V |
| Ayagaya | G | Box DD | Box V | Box V |
| Gorowa | H | Box DD | Box FF | Box V |
| Nkoasenga | I | Box EE | Box FF | Box FF |
| Florian | J | Box EE | Box FF | Box FF |

[Hopefully this is correct. Each monitor part is labeled with blue tape.]

1. The following boxes have all of the equipment for the ten new schools:
   1. Moshono Secondary School: A, B, part of AA, part of U, part of V (donation letters taped to top of box AA – throw away donation letters in the sysadmin manual)
   2. Naura Secondary School: C, D, part of AA, part of U, part of V
   3. Oloasiti Secondary School: E, F, part of BB, part of U, part of V
   4. Welwel/Moita Secondary School: G, H, part of BB, part of U, part of V [server needs runner file to update VPN information]
   5. Bihawana Secondary School: I, J, part of CC, part of U, part of V
   6. Dareda Day Secondary School: K, L, part of CC, part of U, part of V
   7. Ayagaya Secondary School: M, N, part of DD, part of V
   8. Gorowa Secondary School: O, P, part DD, part of FF, part of V
   9. Nkoasenga Secondary School: Q, R, part of EE, part of FF
   10. Florian Secondary School: S, T, part of EE, part of FF
2. Team supplies are in Box FF. There are RJ45s and cable ties for the new schools. There is a knife for Juma and James. There are 10 “3-pin” power cables for Dell adapters, for Ashura’s warehouse. There are 6 spare keyboards in Box V for Ashura’s warehouse.
3. Here is a list of what you will need at each new school being installed: server, power cord for server, sysadmin manual and donation letters, keyboard, monitor screen, monitor stand (2 pieces), power and VGA cables for monitor, network switch and power cord, 20 laptops, 20 laptop adapters, 21 mice, UPS, 3 special UPS cords (for server, monitor, and network switch), voltage stabilizer, 5 extensions, Cat6 cable, RJ45 connectors, zip ties, tape, pens, cable clips, screws for mounting the switch, hammer and drill. Please also take the power meter to every school. Before you plug anything in, please check the voltage with the power meter to make sure it is around 220 volts and stable.

Arusha Equipment

|  |  |  |
| --- | --- | --- |
| **Item** | **Purchased** | **Destination** |
| Uninterruptible power supply (UPS) | 10 | All schools |
| Voltage stabilizer, 500VA | 10 | All schools |
| Power universal extensions (5 outlets) | 50 | 5 each for all schools |

PLEASE NOTE: We have purchased 5 boxes of UTP cable from Fatma’s shop. Please let me know if we need more.

PLEASE NOTE: UPS should be charged for 12 hours before it is used the first time.

Installation Notes

1. Please use Erick’s installation checklist to make sure all steps are completed and you gather all the needed information about the new school plus the signed donation letters.
2. Before you plug anything in, check the computer room voltage with the power meter to make sure it is around 220 volts and stable.
3. Neal turned off the power supply switch on each server, so you will need to turn it on before you start the server.
4. Since Neal has put security stickers on the server, do not open it unless you experience problems.

If the server does not start properly, take off the cover and check the power connectors to the motherboard, the hard disk and DVD connections, make sure the RAM is inserted fully, and check the network cards to make sure they are inserted completely.

1. I have the specifications for all of the laptops in a spreadsheet. Please leave the blue tape with the number on the laptop, for identification. “AS” with a number means the laptop/adapter was donated by Apto Solutions.
2. There were two laptops donated by Apto that did not have a back panel. Sharon tried to protect the back side with some cardboard and anti-static wrap. Please ask the SUs have the students be careful with those units.

Laptop Notes

Laptops for the 10 new schools are all Dell. All of the Dell adapters should work with any Dell laptop, so the adapters are not labeled with a number. For some Dell laptops, you may see a message about the power adapter not providing enough power to charge the battery, or that it can’t identify the power adapter. Please just hit F3, which will disable future warnings. Then hit F1 to continue the boot.

I changed a lot of CMOS batteries, but you may see some additional CMOS battery failures. For most of the models, it is very easy to replace the CMOS battery using a CR2032 battery, copper tape, and electrical tape. However there are some laptops that had dead CMOS batteries but are very difficult to replace. So, the Super User should just do “F1” on boot, and do not try to change those CMOS batteries.

**Complete List of Box Contents (sorted by school)**

| **Box** | **Item** | **Quantity** | **Destination** |
| --- | --- | --- | --- |
| A | Laptop | 10 | Moshono |
| A | Laptop adapter | 10 | Moshono |
| A | Mouse | 10 | Moshono |
| A | Keyboard | 1 | Moshono |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| B | Laptop | 10 | Moshono |
| B | Laptop adapter | 10 | Moshono |
| B | Mouse | 11 | Moshono |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| C | Laptop | 10 | Naura |
| C | Laptop adapter | 10 | Naura |
| C | Mouse | 10 | Naura |
| C | Keyboard | 1 | Naura |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| D | Laptop | 10 | Naura |
| D | Laptop adapter | 10 | Naura |
| D | Mouse | 11 | Naura |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| E | Laptop | 10 | Oloasiti |
| E | Laptop adapter | 10 | Oloasiti |
| E | Mouse | 10 | Oloasiti |
| E | Keyboard | 1 | Oloasiti |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| F | Laptop | 10 | Oloasiti |
| F | Laptop adapter | 10 | Oloasiti |
| F | Mouse | 11 | Oloasiti |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| G | Laptop | 10 | Welwel/Moita |
| G | Laptop adapter | 10 | Welwel/Moita |
| G | Mouse | 10 | Welwel/Moita |
| G | Keyboard | 1 | Welwel/Moita |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| H | Laptop | 10 | Welwel/Moita |
| H | Laptop adapter | 10 | Welwel/Moita |
| H | Mouse | 11 | Welwel/Moita |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| I | Laptop | 10 | Bihawana |
| I | Laptop adapter | 10 | Bihawana |
| I | Mouse | 10 | Bihawana |
| I | Keyboard | 1 | Bihawana |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| J | Laptop | 10 | Bihawana |
| J | Laptop adapter | 10 | Bihawana |
| J | Mouse | 11 | Bihawana |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| K | Laptop | 10 | Dareda |
| K | Laptop adapter | 10 | Dareda |
| K | Mouse | 10 | Dareda |
| K | Keyboard | 1 | Dareda |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| L | Laptop | 10 | Dareda |
| L | Laptop adapter | 10 | Dareda |
| L | Mouse | 11 | Dareda |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| M | Laptop | 10 | Ayagaya |
| M | Laptop adapter | 10 | Ayagaya |
| M | Mouse | 10 | Ayagaya |
| M | Keyboard | 1 | Ayagaya |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| N | Laptop | 10 | Ayagaya |
| N | Laptop adapter | 10 | Ayagaya |
| N | Mouse | 11 | Ayagaya |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| O | Laptop | 10 | Gorowa |
| O | Laptop adapter | 10 | Gorowa |
| O | Mouse | 10 | Gorowa |
| O | Keyboard | 1 | Gorowa |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| P | Laptop | 10 | Gorowa |
| P | Laptop adapter | 10 | Gorowa |
| P | Mouse | 11 | Gorowa |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| Q | Laptop | 10 | Nkoasenga |
| Q | Laptop adapter | 10 | Nkoasenga |
| Q | Mouse | 10 | Nkoasenga |
| Q | Keyboard | 1 | Nkoasenga |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| R | Laptop | 10 | Nkoasenga |
| R | Laptop adapter | 10 | Nkoasenga |
| R | Mouse | 11 | Nkoasenga |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| S | Laptop | 10 | Florian |
| S | Laptop adapter | 10 | Florian |
| S | Mouse | 10 | Florian |
| S | Keyboard | 1 | Florian |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| T | Laptop | 10 | Florian |
| T | Laptop adapter | 10 | Florian |
| T | Mouse | 11 | Florian |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| U | Monitor screens | 6 | Moshono, Naura, Oloasiti, Welwel/Moita, Bihawana, Dareda |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| V | Keyboards | 6 | Spares-warehouse |
| V | Monitor screen | 1 | Ayagaya |
| V | Monitor stand | 9 | All schools but Nkoasenga and Florian |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| AA | Desktop computer | 1 | Moshono |
| AA | Desktop computer | 1 | Naura |
| AA | Network switch, 24-port | 1 | Moshono |
| AA | Network switch, 24-port | 1 | Naura |
| AA | System admin manual | 1 | Moshono |
| AA | System admin manual | 1 | Naura |
| AA | Monitor base | 1 | Moshono |
| AA | Monitor base | 1 | Naura |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| BB | Desktop computer | 1 | Oloasiti |
| BB | Desktop computer | 1 | Welwel/Moita |
| BB | Network switch, 24-port | 1 | Oloasiti |
| BB | Network switch, 24-port | 1 | Welwel/Moita |
| BB | System admin manual | 1 | Oloasiti |
| BB | System admin manual | 1 | Welwel/Moita |
| BB | Monitor base | 1 | Oloasiti |
| BB | Monitor base | 1 | Welwel/Moita |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| CC | Desktop computer | 1 | Bihawana |
| CC | Desktop computer | 1 | Dareda |
| CC | Network switch, 24-port | 1 | Bihawana |
| CC | Network switch, 24-port | 1 | Dareda |
| CC | System admin manual | 1 | Bihawana |
| CC | System admin manual | 1 | Dareda |
| CC | Monitor base | 1 | Bihawana |
| CC | Monitor base | 1 | Dareda |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| DD | Desktop computer | 1 | Ayagaya |
| DD | Desktop computer | 1 | Gorowa |
| DD | Network switch, 24-port | 1 | Ayagaya |
| DD | Network switch, 24-port | 1 | Gorowa |
| DD | System admin manual | 1 | Ayagaya |
| DD | System admin manual | 1 | Gorowa |
| DD | Monitor base | 1 | Ayagaya |
| DD | Monitor base | 1 | Gorowa |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| EE | Desktop computer | 1 | Nkoasenga |
| EE | Desktop computer | 1 | Florian |
| EE | Network switch, 24-port | 1 | Nkoasenga |
| EE | Network switch, 24-port | 1 | Florian |
| EE | System admin manual | 1 | Nkoasenga |
| EE | System admin manual | 1 | Florian |
| EE | Monitor base | 1 | Nkoasenga |
| EE | Monitor base | 1 | Florian |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| FF | Monitor screens | 3 | Gorowa, Nkoasenga, Florian |
| FF | Monitor stands | 2 | Nkoasenga and Florian |
| FF | Team supplies | 1 Box | Reneal Team |
|  |  |  |  |

Server power cables are in each server box, with the sysadmin manual.

Monitor VGA and power cables for the schools are in the big server “Manila” boxes.