**Reneal 2021A Box and Project Notes**

**Version 1**

Miscellaneous Notes

1. When we carried the boxes on the airplane, there was a 23kg weight limit. But now because we are shipping the boxes as air cargo, there is not a weight limit. So please be careful, some of the boxes are heavier this time than before. Here are the weights, with the heaviest boxes listed first:

|  |  |  |
| --- | --- | --- |
| **Box** | **Destination** | **Weight (kg)** |
| U | Suye/Kinana/Kimaseki/Elerai/Arusha Girls | 32 |
| F | Olmotonyi SS | 30 |
| P | Mwandet SS | 28 |
| B | Kinana SS | 26 |
| H | Elerai SS | 26 |
| J | Kimaseki SS | 26 |
| D | Suye SS | 26 |
| S | Elerai SS/Kinana SS | 25 |
| N | Kiranyi SS | 25 |
| T | Kimaseki SS/Suye SS | 25 |
| O | Mringa SS | 25 |
| I | Kimaseki SS | 25 |
| C | Suye SS | 25 |
| K | Einoti SS | 24 |
| M | Kimnyaki SS | 24 |
| E | Longido DC | 24 |
| Q | Mwandet SS/Arusha Girls/Mwandet A-level/Team/Longido DC Spares | 24 |
| G | Elerai SS | 24 |
| L | Einoti SS | 24 |
| A | Kinana SS | 22 |
| V | Einoti/Mwandet/Kiranyi/Kimnyaki/Mringa | 21 |
| R | Arusha DC Spares/Longido DC Spares | 19 |

1. Also because the boxes will be sent stacked on wooden pallets, we have packed them with less bubble-wrap inside since the boxes will not be moving around during shipping. That way we also could fit in more equipment. But it also means that it will be good to handle these boxes more carefully. There is a label on each box that says “THIS SIDE UP”. Whenever you are moving the boxes in a vehicle or storing the boxes, please try to place the boxes so that the “THIS SIDE UP” label is on top facing up.
2. Our donor organization, Apto Solutions, is very focused on saving the environment. So we ask that Reneal Team Tanzania collect any laptops, laptop adapters, or other equipment donated by Apto that fails, so we can return it to the US for recycling. Our idea is that Neal and I can carry it back to the US in boxes. So when a school returns dead equipment to you from Apto Solutions, please store it in a box at RO for us.

Summary of Box Contents

1. Find Box Q. It is a mixed box that has things for the Team, Arusha Girls HS, Mwandet A-Level, Mwandet O-Level, and Longido DC. Open it and remove and safely store the following until you take it to a school:
   1. Arusha Girls HS: Arusha Girls’ School 2 laptops, 2 adapters, 3 mice
   2. Mwandet A-level monitor/stand (2 pieces)/HDMI cable/power cable (for Mwandet A-level MacBook server with dead screen)
   3. Mwandet O-Level: 4 laptops for O-level lab (their adapters are with other Mwandet adapters in Box P)
   4. Longido DC Spares (for Anold): 7 laptop adapters
   5. Robert, Erick, and Anold: There is a box of installation supplies for these projects (tape, Sharpie pens, RJ45s, zip ties, tools for Anold). There is also a USB drive for each of you with the Reneal software (LTSP server, MacBook server, and MacBook workstation). Neal has written instructions, and these are inside each USB drive box. He has also put a README file on the USB drive. Please let us know if you have questions or problems.

PLEASE NOTE: I have sent a new type of RJ45 connector. It seems to work okay, but please let me know if you have any problems.

1. Boxes A, B, C, D, G, H, I, J, S, T, U have the equipment for the four new schools in Arusha CC. We have also sent a desktop server, monitor, and keyboard for Arusha Girls School.
   1. A, B, part of S, part of U – Kinana
   2. C, D, part of T, part of U – Suye
   3. G, H, part of S, part of U – Elerai
   4. I, J, part of T, part of U – Kimaseki
   5. Part of Q, Part of U – Arusha Girls

PLEASE NOTE: The monitors for the five servers have parts in several boxes – I hope it is not too confusing. The monitor screen and one piece of the monitor stand (Monitor Stand B) are in Box U [Kinana, Elerai, Kimseki, Suye, Arusha Girls]. The second piece of the monitor stand (Monitor Stand A) and the VGA cable, server power cable, and monitor power adapter are in Boxes S [Kinana, Elerai], T [Kimaseki, Suye], and U [Arusha Girls].

Here is a list of what you will take to each new school being installed in Arusha CC: server, keyboard, monitor screen/stand(2 pieces)/VGA cable/monitor adapter, power cord for server, network switch and power cord, 20 laptops, 20 laptop adapters, 21 mice, UPS, voltage stabilizer, 5 extensions, 1 multiplug, Cat6 cable, RJ45 connectors, zip ties, tape pens, cable clips, screws for mounting the switch, SysAdmin manual with donation letters, hammer and drill (from Habari Node).

1. The items for Arusha Girls School are in two boxes: Box Q (2 laptops/adapters and 3 mice) and Box U (server, keyboard, monitor screen/stand (2 pieces)/VGA cable/monitor adapter/power cord for server) – plus UPS and multiplug purchased in Arusha.

PLEASE NOTE: Please remove the emergency laptop server from Arusha Girls School and return to safe storage at the RO.

1. Box F is for Olmotonyi (11 laptops/adapters/mice). There are 3 new extensions for Olmotonyi.
2. Box E is for Longido DC (11 laptops/adapters/mice). [4 units Namanga, 4 units Longido A-level, 1 unit Tingatinga, 1 unit Enduimet, 1 unit Engarenaibor]. There is a note inside taped on laptops with the idea of what units to send to each school.
3. In Box Q, there is a monitor/stand/HDMI cable/power cable for the Mwandet A-level lab – it is for the MacBook server, which has a bad screen.
4. There are five schools that will have their labs expanded: Einoti, Mwandet O-level, Kiranyi, Kimnyaki, and Mringa. Here are the steps at each lab:
   1. Take new extensions for these schools for the added laptops: Einoti(5), Mwandet O-Level(3), Kiranyi(3), Kimnyaki(3), and Mringa(3).
   2. Remove the old 24-port switch from each of these schools and take them to RO for safe storage (these old 24-port switches from these schools will be used at new schools later in 2021)
   3. Mount the 48-port switch (taken from Box V)

PLEASE NOTE: Please be careful. The 48-port switches are very heavy. They must be mounted securely to the wall, or they can be placed on a table near the server if you think they are too heavy to screw on the wall.

* 1. Add wires for the new laptops for each school
  2. Here is the summary of laptop boxes for each of these five schools:
     1. Einoti Boxes K and L (17 laptops/adapters/mice)
     2. Mwandet Box P plus 4 laptops from Box Q (14 laptops/adapters/mice)
     3. Kimnyaki Box M (10 laptops/adapters/mice)
     4. Kiranyi Box N (10 laptops/adapters/mice)
     5. Mringa Box O (9 laptops/adapters/mice)

1. Box R has spare monitors, stands, VGA cables, and power cables:
   1. 3 monitor/stands/VGA cable/power cable to Arusha DC
   2. 2 monitor/stands/VGA cable/power cable to Longido DC
   3. 2 spare VGA cables to Arusha DC
2. Erick, please add the 3 monitors/stands/VGA cables/power cables and the 2 spare VGA cables to the Arusha DC spares at the RO.
3. Anold, maybe you can put everything for the Longido DC Spares in one box for safe storage (Box R: 2 monitors/stands/VGA cables/power cables and Box Q: 7 spare laptop adapters). If you think of it, maybe also take 2 keyboards from the spares at Arusha DC, since we have a lot of keyboards there already. If there are other items you think of that would be useful to keep at Longido DC for spares, please let me know and I will try to include in the next shipment.

Arusha Purchases

|  |  |  |
| --- | --- | --- |
| **Item** | **To Buy** | **Destination** |
| Uninterruptible power supply (UPS) | 5 | Suye, Kinana, Kimaseki, Elerai, Arusha Girls HS |
| Voltage stabilizer, 500VA | 4 | Suye, Kinana, Kimaseki, Elerai |
| Power universal extensions (5 outlets) | 40 | 5 each (Suye, Kinana, Kimaseki, Elerai, Einoti)  3 each (Mwandet, Kimnyaki, Kiranyi, Mringa, Olmotonyi) |
| Multiplug (so 3 things can be plugged into UPS) | 5 | Suye, Kinana, Kimaseki, Elerai, Arusha Girls HS |

PLEASE NOTE: I’m not sure how much Cat6 we have. We will buy 4 boxes from Fatma’s shop. I think that will be enough, but please let me know if we need another box.

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

Installation Notes

1. Please use Erick’s checklist to make sure all steps are completed and you gather all the needed information about the new school.
2. When starting installation at a new lab, please inspect the server before you turn it on for the first time. 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.
3. The multi-plug should plug into the UPS. The server, network switch, and monitor will plug into the multi-plug.
4. After putting the laptops in place and seeing that they are working, please remove the white labels that are taped on the top of the laptops. You can throw those labels away. But 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.
5. One of the laptops at Mringa needs an external keyboard. There should be a keyboard in the Mringa box.
6. There are donation letters for Kinana, Suye, Kimaseki, and Elerai – these are included with the SysAdmin manual. There are also donation letters for Einoti, Mwandet, Mringa, Kimnyaki, Kiranyi, and Olmotonyi in a brown envelope in their boxes. There are 2 copies of the donation letter for each school. Have each school head and main super user sign them. Give them a copy, keep a copy for David, and send Rene a picture.

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

| **Destination** | **Box** | **Item** | **Quantity** |
| --- | --- | --- | --- |
| Reneal Team Tanzania | Q | Team supplies (tape, pens, zip ties, RJ45 connectors, tools) | 1 |
| Q | Team software USB drives | 3 |
|  |  |  |  |
| Arusha DC Spares | R | Monitor/stand/pwr/VGA | 3 |
| R | VGA cable | 2 |
|  |  |  |  |
| Arusha Girls School | Q | Laptop | 2 |
| Q | Laptop adapter | 2 |
| Q | Mouse | 3 |
| U | Server computer | 1 |
| U | Monitor screen | 1 |
| U | Mon stand A | 1 |
| U | Mon stand B | 1 |
| U | Keyboard | 1 |
|  |  |  |  |
| Einoti Secondary School | K | Laptop | 10 |
| K | Laptop adapter | 10 |
| K | Mouse | 17 |
| L | Laptop | 7 |
| L | Laptop adapter | 7 |
| V | Network switch, 48-port | 1 |
|  |  |  |  |
| Elerai Secondary School | G | Laptop | 10 |
| G | Laptop adapter | 10 |
| G | Mouse | 21 |
| H | Laptop | 10 |
| H | Laptop adapter | 10 |
| H | Reneal manual | 1 |
| S | Server computer | 1 |
| S | Network switch, 24-port | 1 |
| S | Mon stand A | 1 |
| S | VGA/pwr/monitor adapter | 1 |
| U | Monitor screen | 1 |
| U | Mon stand B | 1 |
| U | Keyboard | 1 |
|  |  |  |  |
| Kimaseki Secondary School | I | Laptop | 10 |
| I | Laptop adapter | 10 |
| I | Mouse | 21 |
| J | Laptop | 10 |
| J | Laptop adapter | 10 |
| J | Reneal manual | 1 |
| T | Server computer | 1 |
| T | Network switch, 24-port | 1 |
| T | Mon stand A | 1 |
| T | VGA/pwr/monitor adapter | 1 |
| U | Monitor screen | 1 |
| U | Mon stand B | 1 |
| U | Keyboard | 1 |
|  |  |  |  |
| Kimnyaki Secondary School | M | Laptop | 10 |
| M | Laptop adapter | 10 |
| M | Mouse | 10 |
| V | Network switch, 48-port | 1 |
|  |  |  |  |
| Kinana Secondary School | A | Laptop | 10 |
| A | Laptop adapter | 10 |
| A | Mouse | 10 |
| A | Reneal manual | 1 |
| B | Laptop | 10 |
| B | Laptop adapter | 10 |
| B | Mouse | 11 |
| S | Server computer | 1 |
| S | Network switch, 24-port | 1 |
| S | Mon stand A | 1 |
| S | VGA/pwr/monitor adapter | 1 |
| U | Monitor screen | 1 |
| U | Mon stand B | 1 |
| U | Keyboard | 1 |
|  |  |  |  |
| Kiranyi Secondary School | N | Laptop | 10 |
| N | Laptop adapter | 10 |
| N | Mouse | 10 |
| V | Network switch, 48-port | 1 |
|  |  |  |  |
| Longido DC (4 Namanga, 4 Longido A-Level, 1 Tingatinga, 1 Enduimet, 1 Engarenaibor) | E | Laptop | 11 |
| E | Laptop adapter | 11 |
| E | Mouse | 11 |
|  |  |  |  |
| Longido DC Spares | Q | Laptop adapter | 7 |
| R | Monitor/stand/pwr/VGA | 2 |
|  |  |  |  |
| Mringa Secondary School | O | Laptop | 9 |
| O | Laptop adapter | 9 |
| O | Mouse | 9 |
| O | Keyboard | 1 |
| V | Network switch, 48-port | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| Mwandet Secondary School | P | Laptop | 10 |
| P | Laptop adapter | 14 |
| P | Mouse | 14 |
| Q | Monitor/stand/pwr cable/HDMI cable [A-level lab] | 1 |
| Q | Laptop | 4 |
| V | Network switch, 48-port | 1 |
|  |  |  |  |
| Olmotonyi Secondary School | F | Laptop | 11 |
| F | Laptop adapter | 11 |
| F | Mouse | 11 |
|  |  |  |  |
| Suye Secondary School | C | Laptop | 10 |
| C | Laptop adapter | 10 |
| C | Mouse | 11 |
| C | Reneal manual | 1 |
| D | Laptop | 10 |
| D | Laptop adapter | 10 |
| D | Mouse | 10 |
| T | Server computer | 1 |
| T | Network switch, 24-port | 1 |
| T | Mon stand A | 1 |
| T | VGA/pwr/monitor adapter | 1 |
| U | Monitor screen | 1 |
| U | Mon stand B | 1 |
| U | Keyboard | 1 |