CIDC Challenge - Building a report through a spread sheet

This software was developed by Pedro Lopes de Oliveira and Yara Caroline Tavares Mendes, Undergraduated Telecommunications Engineers.  
  
For contact:  
Pedro - pedro.lopes@get.inatel.br  
Yara - yaracaroline@get.inatel.br

Generated by: Pedro Lopes de Oliveira  
Date: 21/04/22 - 16:38

For better quality informations, the outliers were excluded considering the stipulated outlier pattern.

# Operators

## Number of services for each operator

On this subsection of Operators are the information about the number of services executed for each operator.

|  |  |
| --- | --- |
| Service | Number of services |
|  |  |
| ZAZ Telecom | 307 |
| WOW Telecom | 176 |

## Number of unique services for each operator

On this subsection of Operators are the information about the number of unique services (all services with all operators) executed for each operator.

|  |  |
| --- | --- |
| Service | Number of services |
|  |  |
| ZAZ Telecom + 1800 MOCN | 1 |
| ZAZ Telecom + Antenna Swap | 0 |
| ZAZ Telecom + BAND P | 7 |
| ZAZ Telecom + Carrier Expansion | 0 |
| ZAZ Telecom + NEW 3G | 2 |
| ZAZ Telecom + NEW 4G | 11 |
| ZAZ Telecom + NEW 4G 700 | 22 |
| ZAZ Telecom + New Site 5G | 0 |
| ZAZ Telecom + New Site GUL | 0 |
| ZAZ Telecom + Refarming GL 1800Mhz | 15 |
| ZAZ Telecom + Refarming UL 2100 Mhz | 58 |
| ZAZ Telecom + Refarming UL 850 Mhz | 3 |
| ZAZ Telecom + ReHoming | 11 |
| ZAZ Telecom + SIX SECTORS L1800 | 11 |
| ZAZ Telecom + SIX SECTORS L2100 | 2 |
| ZAZ Telecom + Swap 4.5G | 164 |
| ZAZ Telecom + WL CLEAN UP | 0 |
| WOW Telecom + 1800 MOCN | 0 |
| WOW Telecom + Antenna Swap | 2 |
| WOW Telecom + BAND P | 0 |
| WOW Telecom + Carrier Expansion | 0 |
| WOW Telecom + NEW 3G | 0 |
| WOW Telecom + NEW 4G | 0 |
| WOW Telecom + NEW 4G 700 | 0 |
| WOW Telecom + New Site 5G | 0 |
| WOW Telecom + New Site GUL | 7 |
| WOW Telecom + Refarming GL 1800Mhz | 0 |
| WOW Telecom + Refarming UL 2100 Mhz | 0 |
| WOW Telecom + Refarming UL 850 Mhz | 0 |
| WOW Telecom + ReHoming | 0 |
| WOW Telecom + SIX SECTORS L1800 | 0 |
| WOW Telecom + SIX SECTORS L2100 | 0 |
| WOW Telecom + Swap 4.5G | 146 |
| WOW Telecom + WL CLEAN UP | 21 |

## Mean duration for each operator

On this subsection of Operators are the information about the mean time used for each operator.

|  |  |
| --- | --- |
| Operator | Mean duration |
|  |  |
| ZAZ Telecom | 03:46:22 |
| WOW Telecom | 02:23:50 |

# Services

## Number of unique services

On this subsection of Services are the information about the number of services executed, desconsidering the operators.

|  |  |
| --- | --- |
| Service | Number of services |
|  |  |
| 1800 MOCN | 1 |
| Antenna Swap | 2 |
| BAND P | 7 |
| Carrier Expansion | 0 |
| NEW 3G | 2 |
| NEW 4G | 11 |
| NEW 4G 700 | 22 |
| New Site 5G | 0 |
| New Site GUL | 7 |
| Refarming GL 1800Mhz | 15 |
| Refarming UL 2100 Mhz | 58 |
| Refarming UL 850 Mhz | 3 |
| ReHoming | 11 |
| SIX SECTORS L1800 | 11 |
| SIX SECTORS L2100 | 2 |
| Swap 4.5G | 310 |
| WL CLEAN UP | 21 |

## Mean time for each service

On this subsection of Services are the information about the mean time used for each service.

|  |  |
| --- | --- |
| Service | Mean duration |
|  |  |
| 1800 MOCN | 01:10:00 |
| Antenna Swap | 01:56:09 |
| BAND P | 03:03:50 |
| Carrier Expansion | 00:00:00 |
| NEW 3G | 04:58:15 |
| NEW 4G | 03:40:27 |
| NEW 4G 700 | 02:44:10 |
| New Site 5G | 00:00:00 |
| New Site GUL | 01:49:18 |
| Refarming GL 1800Mhz | 03:05:01 |
| Refarming UL 2100 Mhz | 02:47:35 |
| Refarming UL 850 Mhz | 02:36:40 |
| ReHoming | 01:13:56 |
| SIX SECTORS L1800 | 03:32:32 |
| SIX SECTORS L2100 | 03:15:00 |
| Swap 4.5G | 03:33:33 |
| WL CLEAN UP | 02:28:15 |

# Employees

## Above mean employees

On this subsection of Employees are the information about the number of times an employee was above and below the mean duration.

|  |  |
| --- | --- |
| Employee | Number of times above mean |
|  |  |
| Joaquim Xavier | 46 |
| Pedro Mateus | 20 |
| Jorge Salvador | 143 |
| João Maria José | 11 |

|  |  |
| --- | --- |
| Employee | Number of times below mean |
|  |  |
| Joaquim Xavier | 86 |
| Pedro Mateus | 68 |
| Jorge Salvador | 32 |
| João Maria José | 77 |

## Mean time of each employee

On this subsection of Employees are the information about the mean time of each employee to execute activities.

|  |  |
| --- | --- |
| Employee | Mean duration (overall) |
|  |  |
| Joaquim Xavier | 02:59:25 |
| Pedro Mateus | 02:34:51 |
| Jorge Salvador | 04:21:46 |
| João Maria José | 02:12:48 |

After these information catched, you should observe that Jorge was above mean on the overall, what is considered a bad profile.

In this report was shown basic informations that the spreadsheet contains, for more information you should check the below folders (generated with the software):  
- data\_frames  
- graphics  
- text\_archives

Thank you.

Instituto Nacional de Telecomunicações - 21/04/22 - 16:38