Workflow and Services

# Workflow:

Is list of steps done either automatically or triggered by systems users, and are mentioned below:

1. Collecting generated and received calls from predefined sources
2. Defining sources
3. Sources:
4. Android:
5. Email: [appstat717@gmail.com](mailto:appstat717@gmail.com)
6. Automatic Upload path: C:\FMS\_Import\Automatic\Android
7. Manual Upload path: C:\FMS\_Import\Manual\Android
8. Android Received
9. Email: [vanrise.received@gmail.com](mailto:vanrise.received@gmail.com)
10. Automatic Upload path: C:\FMS\_Import\Automatic\Android\_Received
11. Manual Upload path: C:\FMS\_Import\Manual\Android\_Received
12. Revector
13. Email: [Revector@gmail.com](mailto:Revector@gmail.com)
14. Automatic Upload path: C:\FMS\_Import\Automatic\Revector
15. Manual Upload path: C:\FMS\_Import\Manual\Revector
16. Protel
17. Email: [protelcalls@gmail.com](mailto:protelcalls@gmail.com)
18. Email Password:P@ssw0rd123456
19. Automatic Upload path: C:\FMS\_Import\Automatic\Protel
20. Manual Upload path: C:\FMS\_Import\Manual\Protel
21. Call Generator
22. Email: [wmougharbel@vanrise.com](mailto:wmougharbel@vanrise.com)
23. Automatic Upload path: C:\FMS\_Import\Automatic\Android
24. Manual Upload path: C:\FMS\_Import\Manual\Android
25. Manual Calls
26. Email: [manualcalls@gmail.com](mailto:manualcalls@gmail.com)
27. Email Password: Vanrise123456
28. Automatic Upload path: C:\FMS\_Import\Automatic\Manual Calls
29. Manual Upload path: C:\FMS\_Import\Manual\Manual Calls
30. Server Port: 192.168.22.23
31. VoIP switch DB: voipswitch
32. VoIP switch DB user: Walid
33. VoIP switch DB password: w@l!d2014
34. XML path: D:\\mysql\_xmls\\
35. GOIPs
36. Email: [goipmysql@gmail.com](mailto:goipmysql@gmail.com)
37. Email Password: P@ssw0rd123456
38. Automatic Upload path: C:\FMS\_Import\Automatic\GOIP
39. Manual Upload path: C:\FMS\_Import\Manual\GOIP
40. Server Port: 192.168.22.25
41. VoIP switch DB: voipswitch
42. VoIP switch DB user: Walid
43. VoIP switch DB password: w@l!d2014
44. XML path: C:\\mysql\_xmls\\
45. Collecting CDRs and sending them as XML file to main email [vanrisefms@gmail.com](mailto:vanrisefms@gmail.com) whose password is P@ssw0rd123456
46. Android: CDRs are collected and sent as an email every 10 minutes using a windows service “that is created and managed by IDS company”
47. Android Received: CDRs are collected and sent as an email every 10 minutes using a windows service “that is created and managed by IDS company”
48. Revector: Medium is ready to accept calls from Revector, but it is not working in the meantime
49. Protel: same as Revector
50. Call Generator: SQL job collects cdrs every 10 minutes and creates an xml file and sends them automatically. This job is called createxml and it is deployed under call generator server.
51. Manual Calls: a windows service deployed on .23 server mentioned above will collect new CDRs every 10 minutes and then them through SMTP to the Main email address.
52. GOIPs: a windows service deployed on .23 server mentioned above will collect new CDRs every 10 minutes and then them through SMTP to the Main email address.
53. Reading from main email through a listener service and saving in specific folders mentioned above for each source ... this service is called EmailService.
54. Reading new files dropped in folder and saving them to database.

* Database Credentials

IP: 192.12.156.25

Database Name: FMS

User: sa

Password: vanPASS116!

1. Level two compare:
2. Simple normalization of collected cdrs for example removing 00 from or + in order to be in this format 961, 963, and 964 etc…
3. Analyzing calls to find matches between generated and received calls in a way that we should match called partie in both generating and receiving calls with a difference in attempt date time less than 1 minute
4. Finding fraud CLIS: fraud cases are of 2 types Syrian and Iraqi … 09 and 07... Note that level two compare will find the mobile operator to whom the CLI belong in order to be used later for reporting purposes.
5. Reporting Cases
6. All Report sent either automatically or manually are saved in a folder with path: C:\\FMS\\Pub\\FMS\_Reports\\
7. We have the following types of reports
8. Normal: sent every 2 hours for related operators.. note that type can be specified as pdf or excel, and can be sent either manually or automatically through the service
9. Daily: can be sent only automatic through service called DailyReportService, it collects a summary for a given day for a given operator.
10. Weekly: same as daily but it is on weekly bases
11. Repeated: will collect all the CLIS that appeared after being reported to operator…
12. Applying mobile operators’ feedback: can be done either by operator through web applications deployed for each client example <http://www.fzero-vanrise.com/ST> and using credentials for each mobile operator, stated below the credentials of clients and operators.
    * + Clients:
13. Zain: Za1inv
14. ST: ST@P@$$@123
15. ITPC: !TPC123
    * + Operators:
16. Asia: @s!a
17. Zn: Z@!n
18. Korek: K0rek
19. STL: STL@P@ssw0rd
20. MTN: MTN@123

# Services

1. ClientReportService:
2. Location: Found in Fzero service
3. Functionality: send a report to clients (ST, ITPC, Zain) every 2 hours with new fraud cases
4. Error Logged in Event viewer same server
5. Frequency executed: 2 hours
6. DailyReportService:
7. Location: Found in Fzero service
8. Functionality: send a daily report to clients (ST, ITPC, Zain) every 24 hours showing summary of daily cases
9. Error Logged in Event viewer same server
10. Frequency executed: 24 hours
11. WeeklyReportService:
12. Location: Found in Fzero service
13. Functionality: send a weekly report to clients (ST, ITPC, Zain) every 1 week showing summary of weekly cases
14. Error Logged in Event viewer same server
15. Frequency executed: Weekly
16. RepeatedReportService:
17. Location: Found in Fzero service
18. Functionality: send all repeated cases that has been reported before but still caught
19. Error Logged in Event viewer same server
20. Frequency executed: Weekly
21. EmailService:
22. Location: Found in Fzero service
23. Functionality: listens to main email and responsible of reading new emails containing xml file and dropping it in the folder of imported xmls mentioned above.
24. Error Logged in Event viewer same server
25. Frequency executed: 10 minutes.
26. ImportService:
27. Location: Found in Fzero service
28. Functionality: listens to import folders and parses the xml files then saves to database generated and received calls.
29. Error Logged in Event viewer same server
30. Frequency executed: always.
31. FMSService:
32. Location: Found in Fzero service
33. Functionality: Hosts WCF services used in other services.
34. Error Logged in Event viewer same server
35. Frequency executed: always.
36. ReceivedMySQLService:
37. Location: Found in 192.168.22.25
38. Functionality: reads new received calls every 10 minutes and sends them as xml file to main mail.
39. Error Logged in Event viewer same server
40. Frequency executed: 10 minutes.
41. MySQLService:
42. Location: Found in 192.168.22.23
43. Functionality: reads new generated calls every 10 minutes and sends them as xml file to main mail.
44. Error Logged in Event viewer same server
45. Frequency executed: 10 minutes.