

NEWCOM

MEVA III Implementation



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- Broadband satellite network provider
- Headquartered in Long Beach, California
- 30+ Years experience providing flexible, reliable path-diverse backup solutions for landline networks
- Global Points of Presence in 45 countries
- Four Years as NewCom Partner





- Aruba: Perry Levons
- Bahamas: Tyrone Mckenzie
- Cayman Islands: Kevin Samaroo
- Colombia: Giovanni Jaimes
- Cuba: Raul Acosta, Ricardo Cann
- Curacao: Olwin Carolina
- Dominican Republic: Sergio Rodriguez
- Haiti: Charles Denis
- Honduras: Mario Sosa
- Jamaica: Gordon McDowell
- Mexico: Ermilio Coello
- Panama: Oscar Miranda
- Puerto Rico: Gabriel Baez
- St Maarten: Minder Rismay
- Venezuela: Rodolfo Cortijo
- United States (Atlanta): Dustin Bader
- Travel team: Raul Acosta, Herlan Santana, James Abdo, John Ibanez, Victor Pabon, TBD1, TBD2



- Stage 01: Approval by MEVA III TMG of the Transition Plan presented with the SDD.
- Stage 02: Installation of the Master Station in the Teleport Miami, FL includes a test configuration for the simulation of aeronautical voice and data applications as part of the SAT. On completion the SkyWAN carrier is on air and the satcom network is ready for inclusion of operational MEVA III terminals.
- Stage 03: Installation of the Backup Master Station in Atlanta.
- Stage 04: A few minutes interruption at the Atlanta terminal is necessary to introduce
 - an L-Band combiner indoors to combine the carriers of an old and new modem on the transmit IFL cableand
 - an L-Band splitter indoors to feed the receive signal from the IFL cable to both modems.
- Stage 05: In the subsequent, SAT for Atlanta application tests as agreed and approved by MEVA III TMG, between Atlanta and the Teleport, will be conducted and site acceptance will be achieved.
- Stage 06: Corresponding to steps (3) – (5), another MEVA III Network site, i.e. the first “remote site” in terms of the terminal/network node functions, will be installed and subjected to the SAT.



- Stage 07: Within the 3-site network configuration the switching between Master and Backup Master can be tested.
- Stage 08: In repetition of step (6), all other MEVA III Network sites will be installed by the installation teams, where several teams working in parallel to minimize the migration period with operational costs for 2 networks and subsequently subjected to the SAT.
- Stage 09: Now, all MEVA III Network sites are ready for switch-over in active services. The technical staff of the MEVA Member States have during the On-the-Job Training been instructed on the available interfaces and the connectors. Thus the active connections can now be transferred, one by one or in parallel, from MEVA II Network to MEVA III Network in coordination between technical staff of both affected sites by reconnecting to the MEVA III multiplexer interfaces. This process is accompanied by COMSOFT's Helpdesk Support for the technicians at both sites - Miami and Atlanta.
- Stage 10: After transfer of all active services to MEVA III Network the Linkway2100 carriers will be idle and can be shut down. Thereafter all MEVA II indoor equipment can be decommissioned.
- Stage 11: The transition will be concluded with an adjustment of the modulation and coding to its final values. This involves a brief shut down of the network followed by a reboot with the new parameters



Authorized NEWCOM personnel will conduct VSAT Earth Station tests supervised by the COMSOFT NCC and the Satellite Operator. The scope of work of the Commissioning includes:

- Programming of all Equipment, e. g., RF-Unit, antenna de-icing, satellite modem, multiplexer, router, dial-up modem, etc.
- Pointing the antenna towards the appropriate satellite
- Measuring the Receive System Figure of Merit (G/T) and compare to the rated value
- Repointing the antenna, putting into operation and conducting verification tests and line-up tests according to the requirements determined by the Satellite Operator
- Tuning the antenna feed system for maximum cross-polarization decoupling
- Measuring and plotting the transmit RF-Signal
- Measuring and plotting the IFL-Cable loss



- Establishing the satellite link to the opposite VSAT Earth Station
- Conducting the Rain Fade Margin Test with the assistance of NCC
- Conducting the Bit Error Rate Test (BERT), via the satellite link, together with the opposite VSAT Earth Station
- Putting into operation and testing the function of the remote monitor and control system together with the NCC
- Assisting the CUSTOMER in the customer application test and performing the Customer Handover of the service.
- On-the-Job Training (OJT) - During installation, NEWCOM shall provide on-the-job training
- (OJT) for first level maintenance for the MEVA Members technical staff

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