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Agenda Item 5: Administration Activities
5.2 Third party service procedure

THIRD PARTIES SERVICES USING MEVA COMMUNICATIONS NETWORK

(Presented by TMG Coordinator)

EXECUTIVE SUMMARY	
This working paper presents the analysis for the implementation of a new aeronautical service using the MEVA Communications Network	
Action:	Suggested actions are listed in Section 4.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
<i>References:</i>	<ul style="list-style-type: none">• Thirty second MEVA Technical Management Group Meeting (MEVA/TMG/32), Havana, Cuba 10-12 May 2017

1. Introduction

1.1 Conclusion MEVA/TMG/32/8 - **IMPLEMENTATION OF THIRD PARTY SERVICES** was approved during the MEVA/TMG/32 meeting held in Havana, Cuba from 10 to 12 May 2017. This Conclusion identified the need to carry out an analysis to determine the technical and operational requirements necessary to use the MEVA Network as means of communication to provide third party services to the States.

1.2 The Task was assigned to the TMG Task Force and the results are detailed in this document.

2. Discussion

2.1 During the last TMG/32 Meeting, Representative from Curacao presented a request for review and approval for the implementation of ADS-B services via the MEVA Satellite Network. The TMG Task Force was assigned with examining the possibilities and technical capacities of the Network to provide other services such as ADS-B.

2.2 Members of the Task Force discussed with FREQUENTIS, the MEVA Network Provider such possibilities and concluded the following:

1. Curacao's request could be applied in the future to any other State requiring additional services in support of its aeronautical services.
2. The MEVA Network has the objective of providing the necessary communications means to the States to support its service in an efficient and safe manner at a low cost. Therefore, the implementation of new services must be established under the same philosophy.
3. Following the Conclusion MEVA/TMG/32/8, the MEVA/TMG Task Force, concluded that Curacao request is valid and new mechanisms must be implemented to be able to manage new services.

2.3 Considering the conclusions of the analysis, the MEVA/TMG/TF developed the **attached** document titled "Third Party Services using MEVA Communications Network". The objectives of such document is to implement procedure as a mechanism for the implementations of new services by third parties, using the MEVA Communications Network. The proposed document was send to MEVA Members prior to this meeting for their review and comments.

3. Conclusion

3.1 The increase in air traffic operations requires the implementation of new services. FREQUENTIS indicated its consent, availability, and technical capacity to provide these services highlighting the benefits of using the MEVA infrastructure for new services.

3.2 Any Company requiring the use of the MEVA infrastructure to provide its services most follow the above-mentioned procedures. Likewise, the MEVA service provider will have the responsibility of managing new services according to the procedure guidelines.

3.3 The MEVA/TMG/TF emphasizes that the MEVA Communications Network is a mean for providing communications that supports the services in the region in a safe and efficient way and at low cost for the benefit of all MEVA members.

4. Suggested Actions

4.1 The Meeting is invited to

- a) Take note Take note of the information presented in this paper;
- b) review and approve the Third Party Services using MEVA Communications Network document; and
- c) take any other appropriate action as needed.

Third Parties Services using MEVA Communications Network

Analysis of the implementation of a new aeronautical service using the
MEVA Communications Network

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1 Introduction

During the MEVA/TMG/32 meeting held in Havana, Cuba from 10 to 12 May 2017, Conclusion MEVA/TMG/32/8 - **IMPLEMENTATION OF THIRD PARTY SERVICES** was approved. This Conclusion identified the need to carry out an analysis to determine the technical and operational requirements necessary to use the MEVA Network as means of communication to provide third party services to the States. The Task was assigned to the TMG Task Force and the results are detailed in this document.

FREQUENTIS, the MEVA Network Provider indicated its consent and technical capacity to provide these services. In addition, FREQUENTIS presented in September 2017 an analysis indicating the benefits of using the MEVA infrastructure for new services.

MEVA/TMG/TF members analyzed the information provided and concluded the following:

1. The increase in air traffic operations requires the implementation of new services.
2. Curacao is requesting the implementation of new services via the MEVA Satellite Network.
3. Similar request could be applied in the future to any other State requiring additional services in support of its aeronautical services.
4. The current MEVA Network provider has indicated its consent, capacity and availability to provide the necessary communication means for the implementation of third party services.
5. That the MEVA Network has the objective of providing the necessary communications means to the States to support its services in an efficient and safe manner, and at low cost. Therefore, the implementation of new services must be established under the same philosophy.
6. Following the Conclusion MEVA/TMG/32/8, the MEVA/TMG Task Force, concluded that Curacao request is valid and new mechanisms must be implemented to be able to manage this new service.

Considering the conclusions of the analysis, the MEVA/TMG/TF developed the following procedure as a mechanism for the implementations of new services by third parties, using the MEVA Communications Network.

Any Company requiring the use of the MEVA infrastructure to provide its services must follow these procedures.

Likewise, the MEVA service provider will have the responsibility of managing new services according to the procedure guidelines.

The MEVA/TMG/TF emphasizes that the MEVA Communications Network is a mean for providing communications that supports the services in the region in a safe and efficient way and at low cost for the benefit of all MEVA members.

2 Implementation of Third Parties Services using the MEVA Communications Network

1. General Aspects

- a) The current demand of existing services and the need for implementation of new aeronautical services in the future requires the application of new communication media that supports data as well as voice services.
- b) The States in the NAM/CAR Region agreed to use the MEVA Communications Network as the means to support these new services.
- c) States require optimal solutions that would allow their short and long-term implementations in an efficient manner.
- d) A stable and safe network that maintains the high availability of the services is required.
- e) A recognized benefit is to take advantage of the existing communications infrastructure and the cost reduction in the implementation, as opposed to using a different communications Service provider.

2. New Service Contract

2.1 States

MEVA member States have the right to contract Third Service providers that satisfy the current and future needs of their aeronautical services using the MEVA Communications Network. The following procedures must be used:

- a) The State may contract directly with the Third Party company from which the services are required
- b) The contract and the terms of the contract will be executed between the State and the Third Party Company.
- c) In order for State to use the MEVA Communications Network for the service, the following service requirement procedure must be followed,
 - Submit a formal request to ICAO, requiring the new service.
 - Send the technical specifications for the implementation of the service.
 - ICAO will keep control of the implemented services for the benefit of the MEVA Network members.
- d) The State and the MEVA service provider will agree uniquely on cost dealing with the implementation of third party services using the MEVA network.
- e) The direct payment of the contracted services to the different third party providers is responsibility of the State.

2.2 MEVA Network Service Provider

The MEVA Network communications provider must meet the following requirements as part of the implementation of a new communications to transport the data from a third party company:

- a) Technical data analysis for the implementation of the new service.
 - a. Provider shall provide a detailed report showing the effects of third party services on overall network capacitance.
 - b. Provider must identify any MEVA device that is nearing its design performance limitation due to the introduction of third party services.
- b) Inform ICAO and the MEVA Member States the necessary data, techniques and operations for the implementation of the new services.
- c) Specify the implementation costs and ensure that these costs are kept within the MEVA Network service ranks, so the State benefits from the MEVA infrastructure.
- d) Provide guarantee to the MEVA Network members, that the new Service to be implemented will not affect the operational voice and data services shared by the States.
- e) MEVA Network Service Provider will incorporate the data analysis and the new service monitoring to the monthly report for the MEVA Network members. This data will provide the contracting State with information to do an analysis of the service provided. In addition, the rest of the States can analyze the information considering it for the implementation of future services.
- f) The MEVA Network communications provider must guarantee that:
 - Will have the hardware and software infrastructure to ensure the services high availability.
 - Will ensure that the new services will not affect at any moment the shared voice and data services that States currently have.
 - Will ensure and certify that the channels implementation and monthly costs for new services are the same as those currently handled in the MEVA network.
 - The network service provider will address directly with the State the Service payment and this should not affect the services provided to the rest of the States.

2.3 The New Third Party Provider

The State is responsible for the negotiation and contract of new services to third parties according to its needs. However, since the venue to be used is a regional services network, created for the benefit of all Member states, this third party will have the following responsibilities:

- a) Direct execution of the contract with the State requiring it.
- b) Provide the technical/operational requirements for the implementation of the service.
- c) Provide all the technical/operational information required by the MEVA Member States .

- d) Verify with the MEVA communications service provider that this new Service will not affect the current and future NEVA Network Services.
- e) Will provide a monthly report of the given service, for the contracting State as part of the service monitoring, copying the MEVA Member States, as analysis and learning for the States wishing to contract these services in the future.

3. New Service Contract

1. The Contracting States of new services, the MEVA Communications Service Provider (FREQUENTIS) and any new company that uses the MEVA Network for their services, is committed to be transparent, providing the required information in a timely manner for the benefit of all members of the MEVA network.
2. The Contracting States of new third party services will be responsible for the direct and indirect obligations of the contract; all economic responsibilities of the contract will be the responsibility of the contracting party, in accordance with the regulations and procedures established for using the MEVA infrastructure for new services.
3. MEVA members will not share the cost for a new third party service at any time; it will be the responsibility of the Contracting State.
4. The MEVA Service Provider shall certify that new services through the MEVA Network will not limit the bandwidth for the services initially contracted and guarantee that the services of third parties will not block any future update of the NEVA Network Services such as additional voice and data circuits.
5. The maximum bandwidth available for third-party services will be limited to 1 Mbps in general. This way, 1Mbps will always be available for MEVA services to grow, taking into account the current capacity of the network.
6. The MEVA Service Provider have to ensure that MEVA services, such as the website or ticketing system, are used exclusively by MEVA Members and that third party services will be handled in separately system or any other mechanism to be sure that Third Party Service does not have access to MEVA entries or data storage.
- 7. The MEVA Service Provider must take all the necessary steps possible to ensure that the MEVA network is not exposed to any cybersecurity threat as a result of the addition of 3rd party service provider to the network.**
8. Third-party services may use the same hardware as the current MEVA services, if the traffic is logically separated and the bandwidth is limited.

4. Procedure Diagram

The diagram integrates the phases and activities that must be carried out for the implementation of the new service. Each activity is independent of other activities that different providers must manage with the Contracting State.

