SFC environment Security requirements

draft-mglt-sfc-security-environment-req-02.txt

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Overview: SFC architecture

SFC Control Plane

SFC Management Plane

SFC Data Plane

SFC incoming | SFC outgoing
Data traffic | Data traffic
Overview SFC Architecture

SFC architecture is composed 4 planed:

1. SFC Management Plane
2. Control Plane [I-D.ietf-sfc-control-plane]
3. SFC Data Plane
4. SFC Tenant's Users Data Plane
Goal of the document

The purpose of the document is to:

1. Describe the security impact of each plane in the SFC architecture
2. Threat analysis for attack performed from each plan
3. Provide requirements/recommendations to limit the threats and deploy securely an SFC environment
Requirements / recommendations

Recommendations aims at:
1. Isolation the various planes
2. Mitigating attack performed from or targetting the SFC Data Plane

Note:
- Management and Control Plane are addressed in [I-D.ietf-sfc-control-plane]
- SFC Tenant's Users Data Plane is out of control of the administrator of the SFC.
Status

Version 2 integrates comments received from Martin
Before we move forward, we need to understand how the working group wants to address security aspects of SFC.
Thank You