

NOKIA

DRCN 2016

Network Disaster Management & Recovery

Panel Discussion

- Conservatoire National des Arts et Métiers, Paris
- March 16th 2016

Introduction

- Network Disaster Management & Recovery ...
- 60% of companies don't have a documented Disaster Recovery Plan (DRP)
- 40 % of them said their DRP didn't work !



Network Disaster Management and Recovery

Speakers and their Presentations

- **Maurizio Casoni - University of Modena, Italy**
« Software-Defined Network Orchestration for Mission-Critical Scenarios »
- **Chidung Lac - Orange Labs, France**
« Facing adversity: from the study of new technologies to simulation »
- **Hiroshi Saito - NTT, Japan**
« Network Disaster Management and Recovery »
- **Dominique Verchere - Nokia Bell Labs, France**
« Potential of SDN Control for urgent Optical Network reprovisioning »
- **Xinheng (Henry) Wang – University of West Scotland, UK**
« Interoperable Communication Systems for Disaster Management »

- Let's panel discuss ...

Items to be developed (1/3)

- What are the needs of network infrastructure emergency preparedness for global recovery?
 - Which essential actions are needed to be properly prepared for emergency?
- How the recent advances in elastic optical network systems e.g. spectrally and/or spatially flexible systems, can overcome complete communication outages?
- Are programmatic transport networks (SDN) and network virtualization (NFV) able to integrate the control application of the network disasters and their recovery?
 - How these recovery procedures can synergize for safe wireless and wireline ad-hoc network infrastructures?

Items to be developed (2/3)

- What are the security requirements from large institutions e.g. governments, multi-national business organizations, to small and mid-size enterprises, the Telecom network infrastructures must face to?
- What is the impact on the CAPEX / OPEX required to set-up and/or maintain Emergency Network Operations Centers to recover from Network Disasters?
 - What are the efforts to maintain such network disaster plans?
- How are governments and public institutions e.g., Europe, USA/Canada, etc. organized to manage and recover from Telecom Network Disasters?
 - What are the agreements that must be in place to overcome network disasters?

Items to be developed (3/3)

- How are the members of standard bodies organized to address network disaster recovery?
 - Are recent network control architectures considering the challenges of disaster recovery plans?
- From the missing/still to be developed «*Network Disaster Management and Recovery*» features identified for Telecom networks, what are the next steps the R&D community should envision?

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