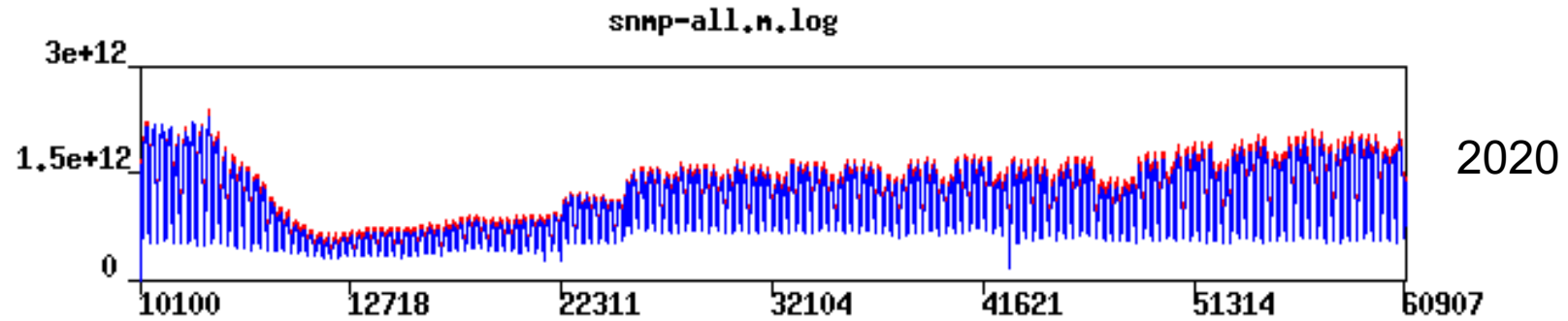
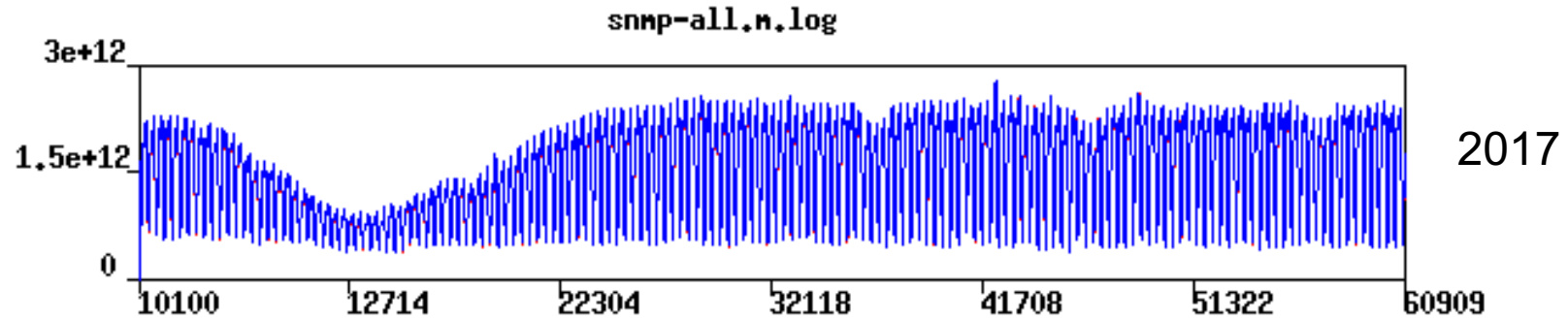


CERNET Experiences and Challenges on online education during COVID-19

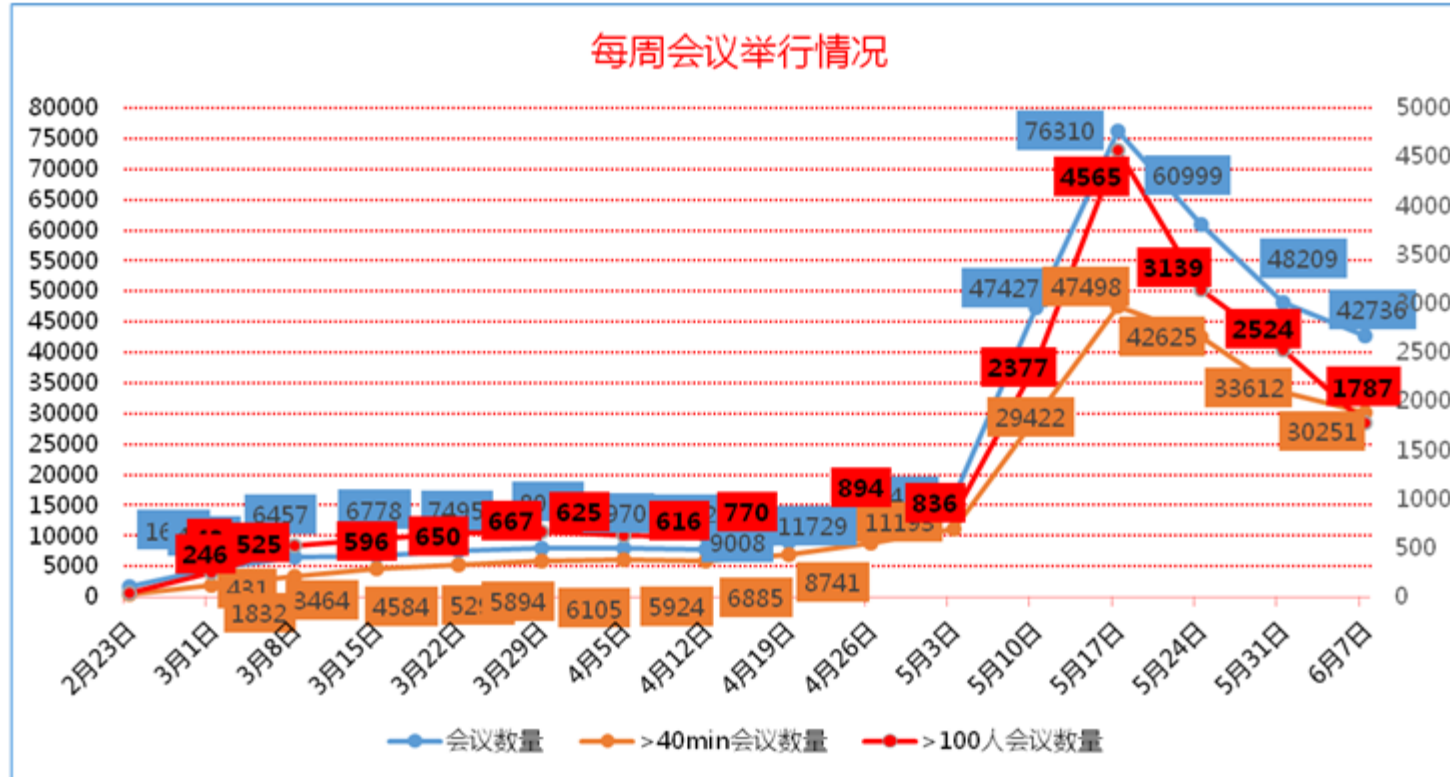
CERNET

2020-06-09

Backbone traffic



Online lecturing (ZOOM)



CARSI

CARSI 教育网联邦认证与资源共享基础设施
CERNET Authentication and Resource Sharing Infrastructure

新闻公告 加入CARSI 成功经验 成员列表

ACSPublications Most Trusted. Most Cited. Most Read. CEPIEC caswiz 中科维智 CNPIEC 易网通 BRILL DE GRUYTER apabi 阿帕比 Clarivate Analytics text 爱数研 EBSCO WILEY ProQuest emerald PUBLISHING ROYAL SOCIETY OF CHEMISTRY IOP Publishing Springer jove VIP IEEE Hiway 中国社会科学出版社 World Scientific GALE nature research OXFORD UNIVERSITY PRESS 社会科学文献出版社 Taylor & Francis Group an informa business 中新金桥 KingChannels Ovid Cnki 中国知网 WANF 2020-06

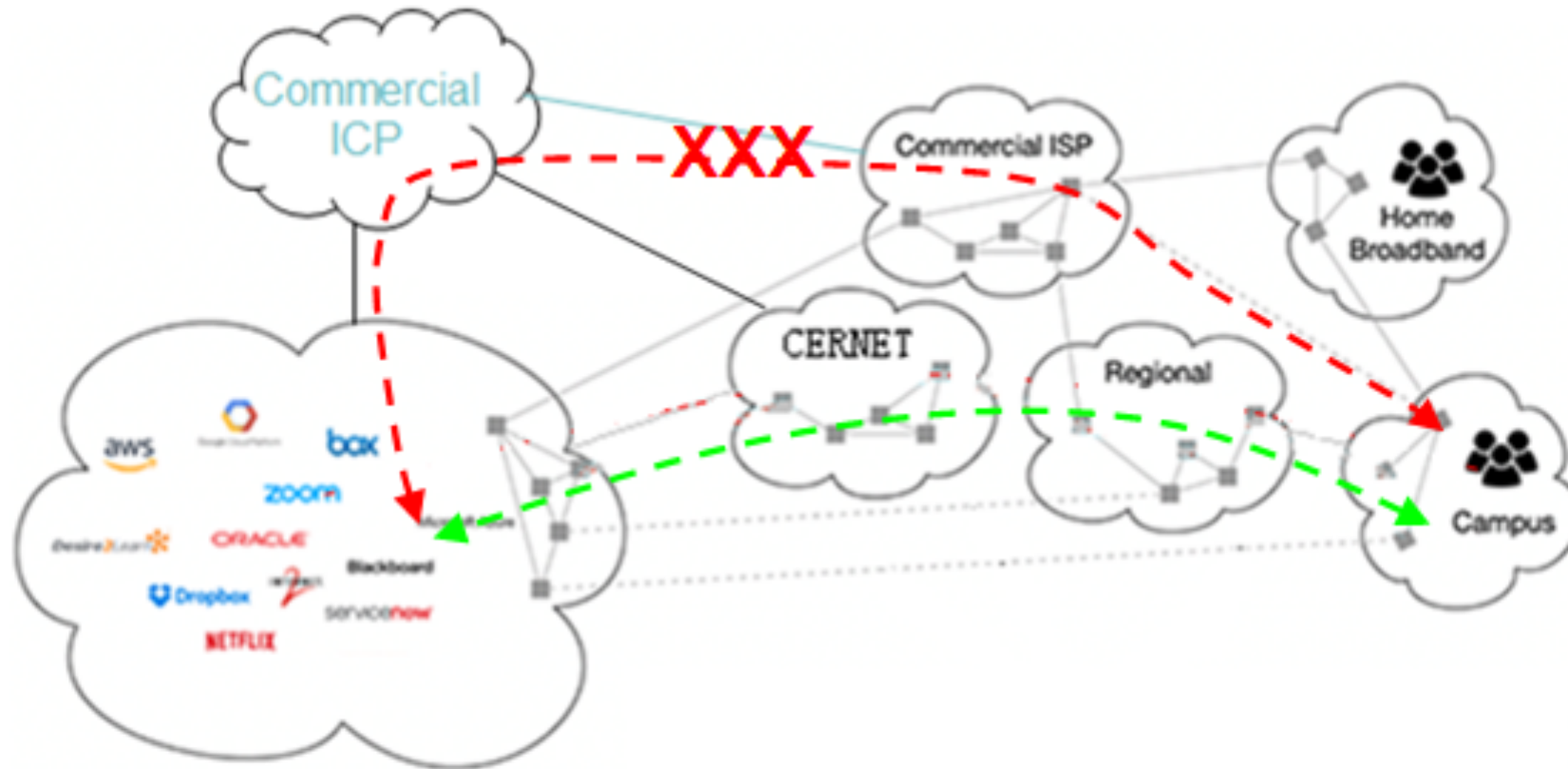
图2：CARSI认证人次趋势图



New model

- Virtual Cloud model
 - Students are at home, still need public cloud services via CERNET
 - The VM in public cloud can use **CERNET IPv4 addresses**
 - The global high performance academic links can be used
 - CERNET addresses optimize the domestic exchange
- 464BGP model
 - Extend BGP peering to campus networks
 - The campus network can **control the BGP peering** with international partners and achieve symmetric routing

Virtual cloud model



464BGP model

