



Security and Compliance  
NTT Security  
Olympic and Paralympic Games, Tokyo 2020

# NTT Provided . . .

Telecommunication services supporting the stable operation of the games

- Personnel from NTT Security and our partners supported the Tokyo 2020 Games
  - » 90 at the security operations center
  - » 350 at the technology operations center
  - » 650 at the venue during the games
- Broadcasting circuit for the games
  - » Fiber optic cable (1,900 kilometers) and leased-line circuits (10,000 kilometers)
- Data networks for the games
  - » Fiber optic cable (1,200 kilometers) and metal cable (3,900 kilometers)
  - » 6,800 CATV set top boxes (11,000 Wi-Fi access points)
  - » 19,600 cell phones and 2,800 fixed-line telephones

# Protection From Cyber Attacks

## Trend 1) Ransomware Attacks

- Human-operated ransomware attacks
- Double extortion
- Mixed strategy with supply chain attacks and service disruption attacks

## Trend 2) Supply Chain Attack—SolarWinds and Exchange

- Attacks on ICT service providers
- Nation-state attacks

## Trend 3) Service Disruption in CII—Colonial and JBS

- Attacks on both IT and OT, resulting in service disruption
- Paid using cryptocurrency—easy for money laundering

## Our Key Success Factors Are “4T”

NTT Security has implemented network security for telecommunication services and various cybersecurity measures.

**T1**

Threat Intelligence  
and Monitoring

**T2**

Total Security  
Solutions

**T3**

Talent, Mind,  
and Formation

**T4**

Team 2020—Complex  
Stakeholder Management



# Other Unexpected Challenges in the Past Year



- Delayed by 1 year
  - » Change in cyber-threat environment
  - » Some engineering re-work
  - » Implementation styles not easily fixed
- COVID-19
  - » The absence of spectators in many games made telecommunication services critical to the Olympics
  - » Protecting the medical system
  - » Fake and phishing websites

# What Is Success?

**Athletes' Success:  
Supreme Performance**



**Media's Success: Eye-  
Catching Photos and  
Reports**



**Broadcast's Success:  
Smooth Transmission**



**Cybersecurity Success Requires Keeping Calm and Carrying On**

# The Results

- Cyber-attacks did not affect the operation of the Olympic and Paralympic Games in Tokyo.
  - » During the games, we blocked 450 million security events, including unauthorized communications to the official website.
  - » During the games, unauthorized communications targeting vulnerabilities in terminals were observed, but we responded by blocking communications.

*Figures provided by TOCOG*

<https://www.zdnet.com/article/nearly-450-million-cyberattacks-attempted-on-japan-olympics-infrastructure-ntt/>

# “A Real Success Story From a Cybersecurity Perspective”

- “The best kind of defense”
- “Having the right people in place”
- “Going on the offensive”
- “Intelligence-driven defense”



“The Tokyo Olympics are a cybersecurity success story,” written by Dr. Brian Gant

<https://www.securitymagazine.com/articles/95880-the-tokyo-olympics-are-a-cybersecurity-success-story>

