

# TOSIBOX<sup>®</sup> CENTRAL LOCK & TOSIBOX<sup>®</sup> VIRTUAL CENTRAL LOCK

## OVERVIEW

TOSI<sup>®</sup>  
BOX

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# SETUP AND USE FOR AMOUNTS OF CONNECTIONS / CENTRAL LOCK INTRODUCTION

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TOSIBOX® (Virtual) Central Lock is the hub for your TOSIBOX® VPN connections. Scalable concurrent VPN connections can easily be created and managed for remote maintenance, continuous data monitoring and data logging purposes. It brings all remote sites to a single point, and centrally manages user and access rights across the entire network in real-time. Scaling from single up to thousands of connections is possible at any time.

## (Virtual) Central Lock functions:

- With Central Lock and always-on bidirectional VPN connections you can easily enable applications like data collection, continuous monitoring or remote maintenance.
- Possibility to collect audit log data (VPN connections opened/closed, web UI logins) from connected TOSIBOX® Locks
- Monitoring service for VPN connections, also system alerts can be triggered from system failures
- Improved and scalable centralized access management



TOSIBOX® Virtual Central Lock

**TOSIBOX® Virtual  
Central Lock**



TOSIBOX® Central Lock

## SETUP AND USE FOR LARGE AMOUNTS OF CONNECTIONS / CENTRAL LOCK INTRODUCTION

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### (Virtual) Central Lock can be set up in two different ways

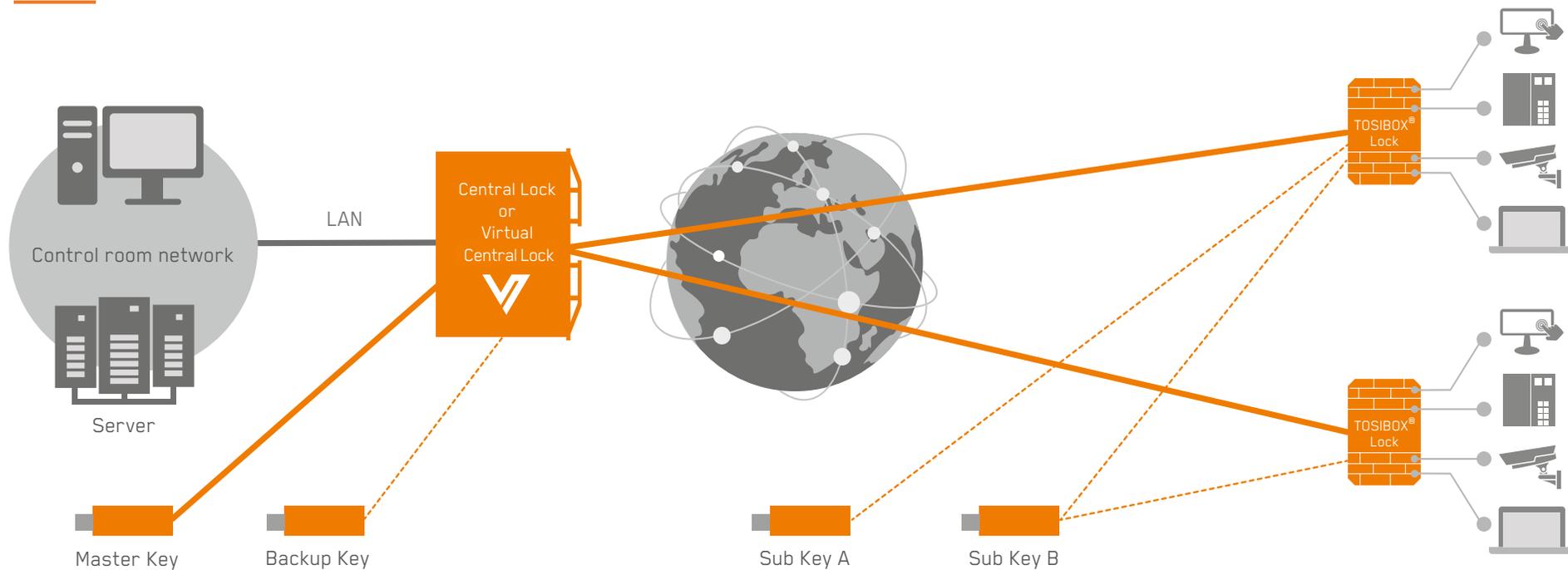
#### **Basic model**

- In the basic model, the Sub Keys have direct access to Locks at remote locations. As a result, these connections are not routed via the Central Lock and access management is done via Master Key.

#### **Centralized model**

- The centralized model enables an easy to use and versatile deployment of access rights management in one place. Access groups define access rights between group members which can be Keys, Locks, IP addresses or network ranges, or MAC addresses. In this model the Sub Keys have access to the remote locations via the Central Lock and direct access to the Locks is not granted

# CENTRAL LOCK, BASIC MODEL



The administrator has access to all remote locations via the company's local area network (LAN / Control room network)

- Master and Backup Key users have similar access rights with the administrator to the remote locations with their own Keys
- User of Sub Key A has access to one location and user of Sub Key B has access to two locations
- The server is connected to Central Lock via the internal network and protected from the public Internet
- The server has access to the remote locations through the Central Lock and the encrypted VPN tunnels

## CENTRAL LOCK, BASIC MODEL

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### Central Lock and customer groups

#### Scenario:

- Company X is providing a service with TOSIBOX<sup>®</sup> Locks for many different customers
- Company X should have access to all Locks that are installed at the customer sites
- Each customer should have access only to their own devices and Locks
- The customers' devices should logically separated into their own groups so that devices and data of different customers are not mixed

## CENTRAL LOCK, BASIC MODEL

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### How this is achieved

- The Master Key(s) and the Central Lock are owned and managed by the company providing the service
- The Locks are deployed at the customers' remote sites and connected to Central Lock using layer 3 connection type
  - All connected sites can be accessed via the Central Lock
- If required, individual customers can be given Sub Keys for accessing Locks that are installed at their premises (access is granted only to their own Locks)
  - In TOSIBOX® Key user interface, a separate Sub Key group is created for each customer, allowing easier management
- Different customers' sites cannot see or talk to each other  
→ no risk of mixing up different customers' data and networks

## CENTRAL LOCK, BASIC MODEL

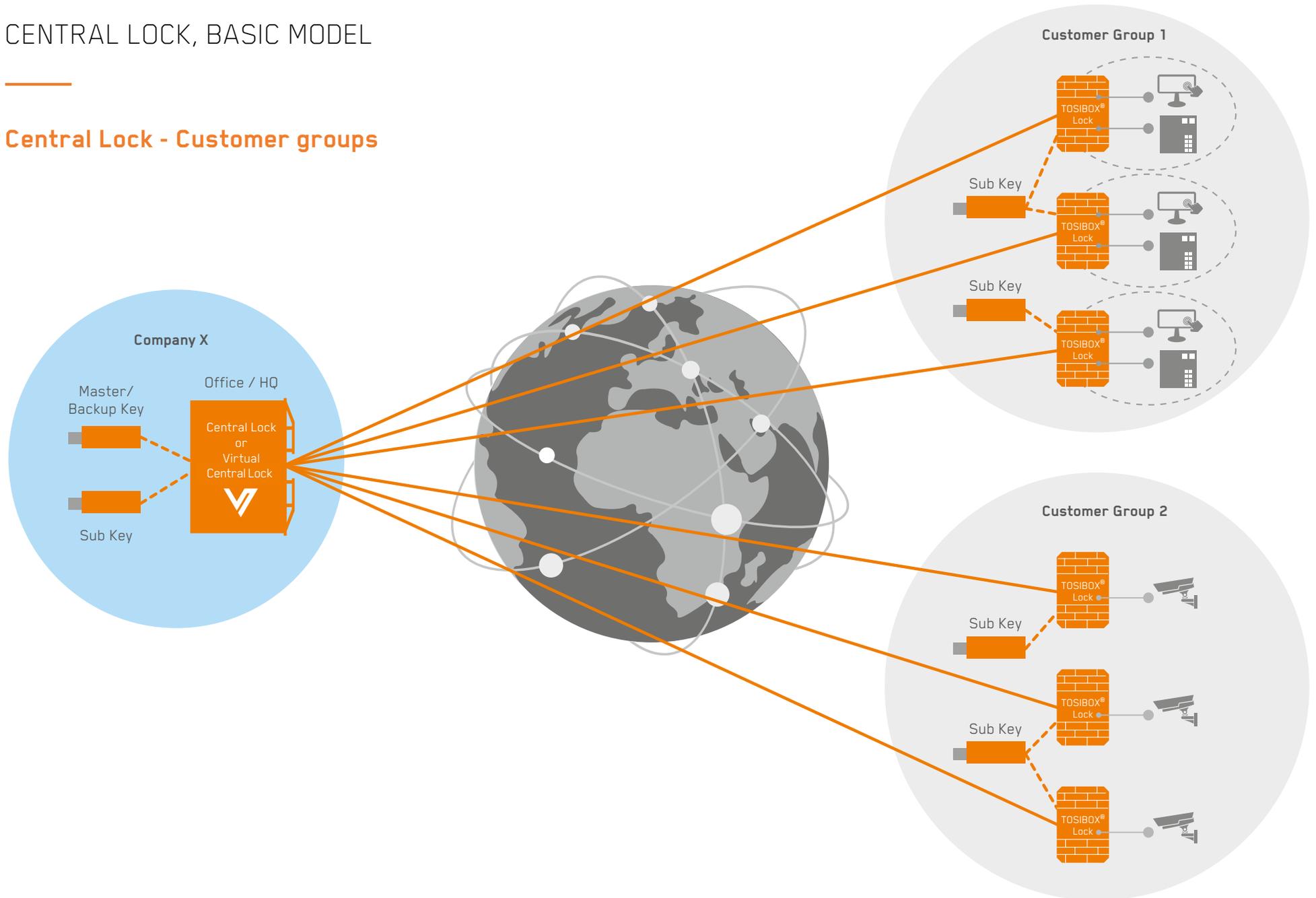
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### Steps for adding new Locks for a customer

- The Master Key is used to take customer's new Lock into use and the Lock is installed at the customer's remote site
- The Lock is named descriptively, e.g. Customer A - Site XYZ
- The Lock is serialized to the Central Lock using Layer 3 connection type
  - An always-on VPN connection is established between the Central Lock and the Lock at the customer's remote site
- If needed, the customer's Sub Keys are granted access rights to the new Lock

# CENTRAL LOCK, BASIC MODEL

## Central Lock - Customer groups



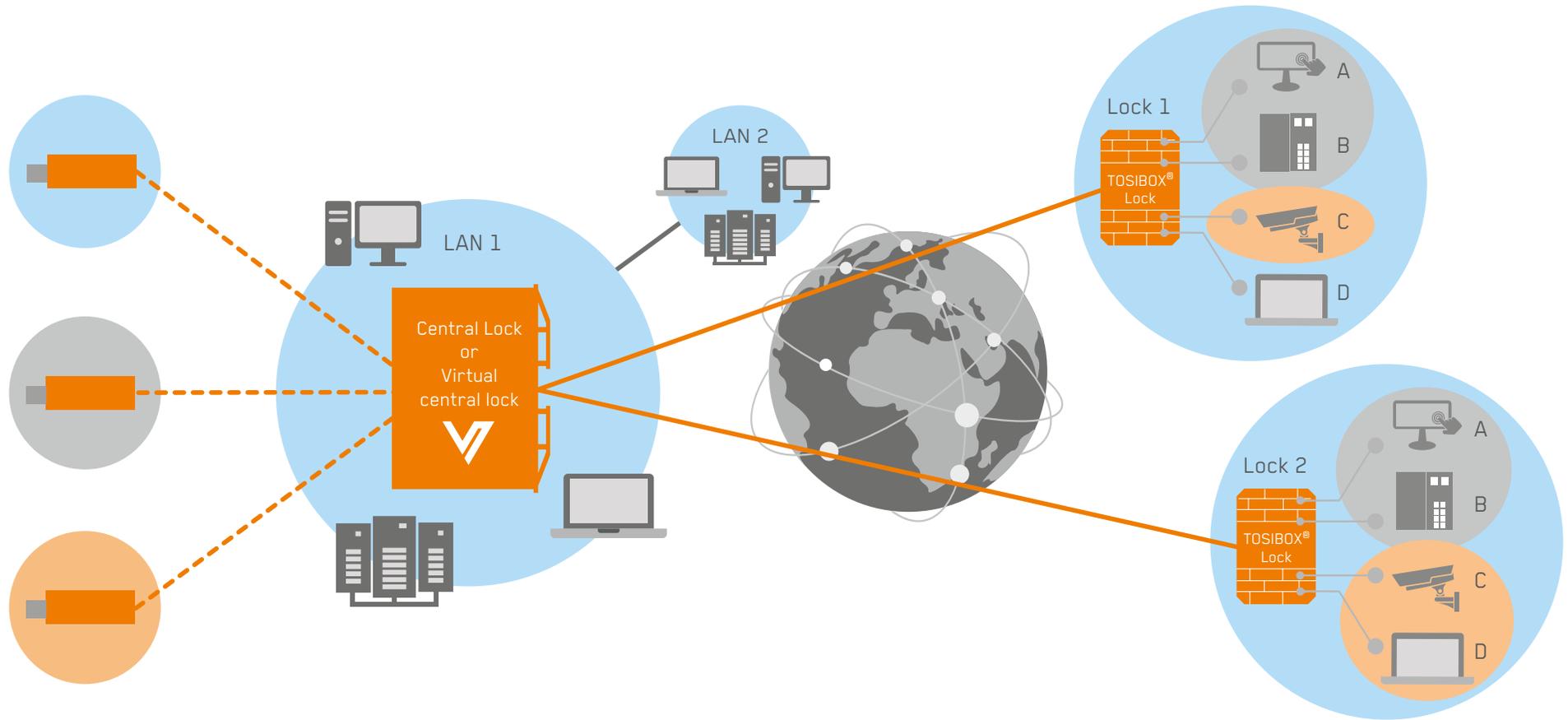
# CENTRAL LOCK, CENTRALIZED MODEL

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## **Centralized model enables e.g.**

- Several different customer network separation so that the customers can only access their own devices while the service provider (Central Lock owner) can offer maintenance services for all customers
- Versatile, easy to use and maintain centralized access control for remote users. Tens or hundreds of different access groups can be set up, maintaining easy control and management of the configuration.
- Device specific access control. While devices are connected to one single Lock on a remote location, access groups can ensure protected, customer specific "server / field device / remote user" networks to be created, all of which are separated from each other.
- All connections to the remote locations are routed via the Central Lock and care must be taken to ensure an adequate bandwidth for the Internet connection.

# CENTRAL LOCK, CENTRALIZED MODEL



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