

# Teleworking and access to ECHA IT systems

Biocides CA meeting  
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## Background

- The **same** security model is used to access both REACH/CLP and Biocides data
  - Unified Security Declaration of Commitment
  - Standard Security Requirements (SSR)
- **Teleworking** proposal discussed with the Security Officers' Network (SON) on 15 May 2013
- If agreement reached by SON, it is foreseen that ECHA Management Board **amends** the SSR to allow teleworking in its June 2013 meeting

# Proposal



## Implementation

- two examples of practical implementation of the teleworking rules:
  - Teleworking solution already in place (Option 1)
  - Direct access to ECHA (Option 2)

## Teleworking rules

- **Policies** on teleworking responsibilities and user behaviour including a signed agreement
- **Processes** on security awareness, software updates and security reporting and response
- **Technical controls** on identifying equipment, encrypting data, firewall, anti-virus and wireless connections as well as authorised software and users

# Further details

# **Risks and mitigating measures**



# Client devices

## **RISK**

A telework device which contains confidential data is lost and stolen

Confidential information stored or processed on (a shared) client device is accessible for other users

A device is infected by a malware which steals confidential data stored or processed on the device

Unauthorised access to the remote service by intruding to a device with an active connection (e.g. VPN tunnel)

## **RULES to mitigate the risk**

Hard drives and portable storage devices must be encrypted using password with complexity requirements  
Incident reporting and response process must be in place  
A clean screen policy: screen must be locked

Equipment must be reliably authenticated  
Equipment may be used only by authorised users based on business need-to-know principle  
A teleworking policy must be in place

The equipment must have up-to-date anti-virus software and virus definitions  
Client firewall enabled , control which applications are allowed to initiate outbound network connections  
Software installed on the equipment has reasonable business justification

Client firewall enabled with reasonably restrictive (especially inbound) rules  
Software installed on the equipment has reasonable business justification



# Teleworking and remote access

## **RISK**

Unauthorised access to remote service by hijacking a valid connection

Unauthorized access to remote service, which is available from anywhere, is exploited

Confidential data on screen is overseen

Unauthorized access to confidential data in paper format

## **RULES to mitigate the risk**

No unprotected wireless networks may be used

Logging and monitoring process must be in place to detect unusual activity

A Non Disclosure Agreement (NDA) must be signed by each authorised user (passwords or other authentication credentials are not revealed, or shared with others)

A clean screen policy must be in place, that is equipment screen must be locked when not in use  
A teleworking policy must be in place

A clean desk policy must in place (store information in locked cabinets, print-outs outside the protected premises cannot be left unprotected or unattended)  
A teleworking policy must be in place

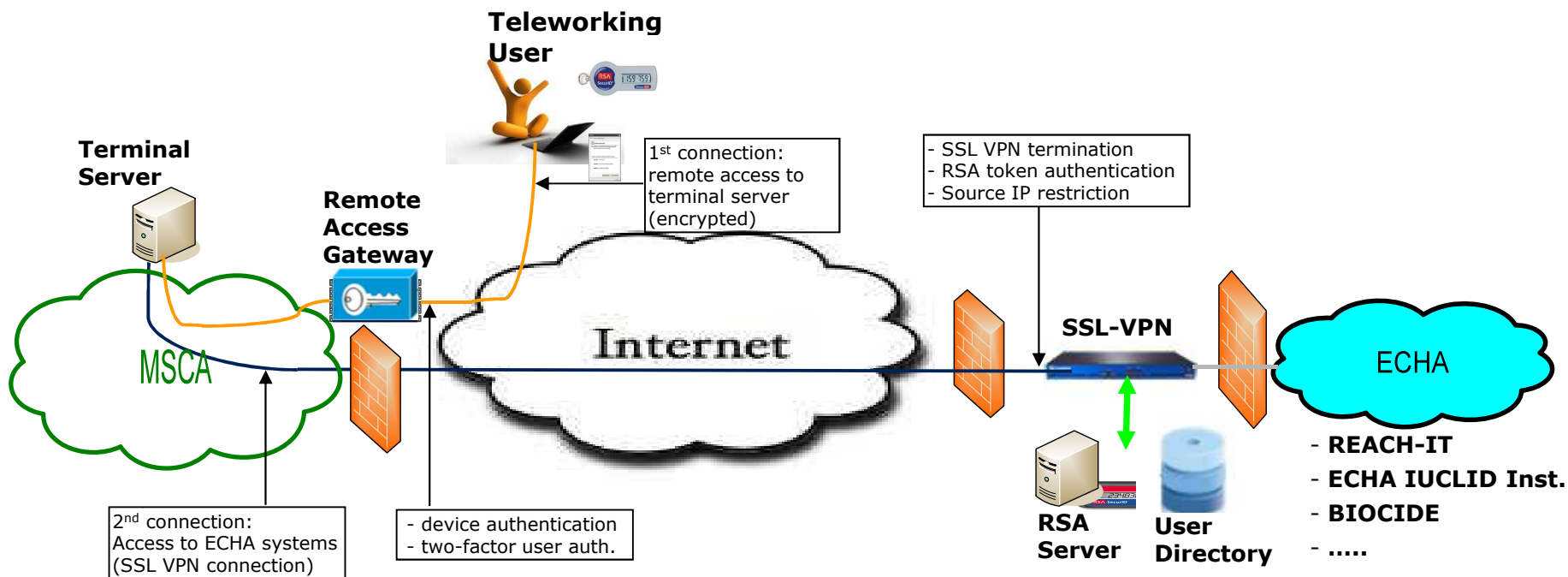
# Practical Implementation Options



# Option 1: Terminal Server at MSCA

**MSCA**

**ECHA**



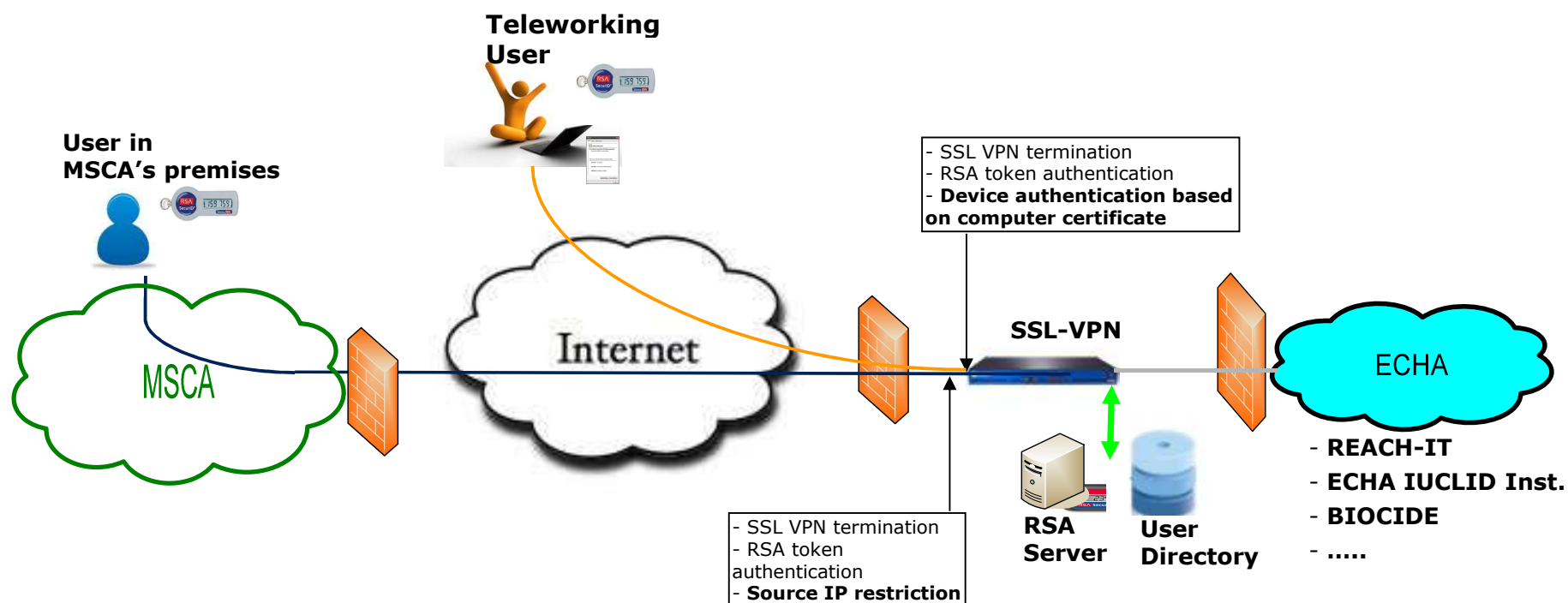
## Option 1: Terminal Server at MSCA

- Remote access solution for telework is fully implemented and maintained by the MSCA
  - The **MSCA is in charge** to implement it in line with security rules
- ECHA sees **no difference** between telework connections via Terminal Server and standard connections from the office premises
- This option is recommended if the MSCA **already has a remote access solution** (and Terminal Server) in place

## Option 2: Direct access to ECHA

**MSCA**

**ECHA**



## Option 2: Direct access to ECHA

- Teletwork clients establish connection directly to the dedicated interface on ECHA's remote access gateway
  - No source IP restriction
  - Device authentication based on computer certificates
- MSCA has to **install and manage computer certificates**
  - A client application is needed for the device authentication
  - ECHA's remote access gateway accepts device certificates which are issued by a trusted MSCA Certificate Authority (CA)
- Recommended if MSCA
  - has **no remote access solution** in place
  - is able to manage computer certificates
- Please note that the device authentication with computer certificates sets limitations for client systems