

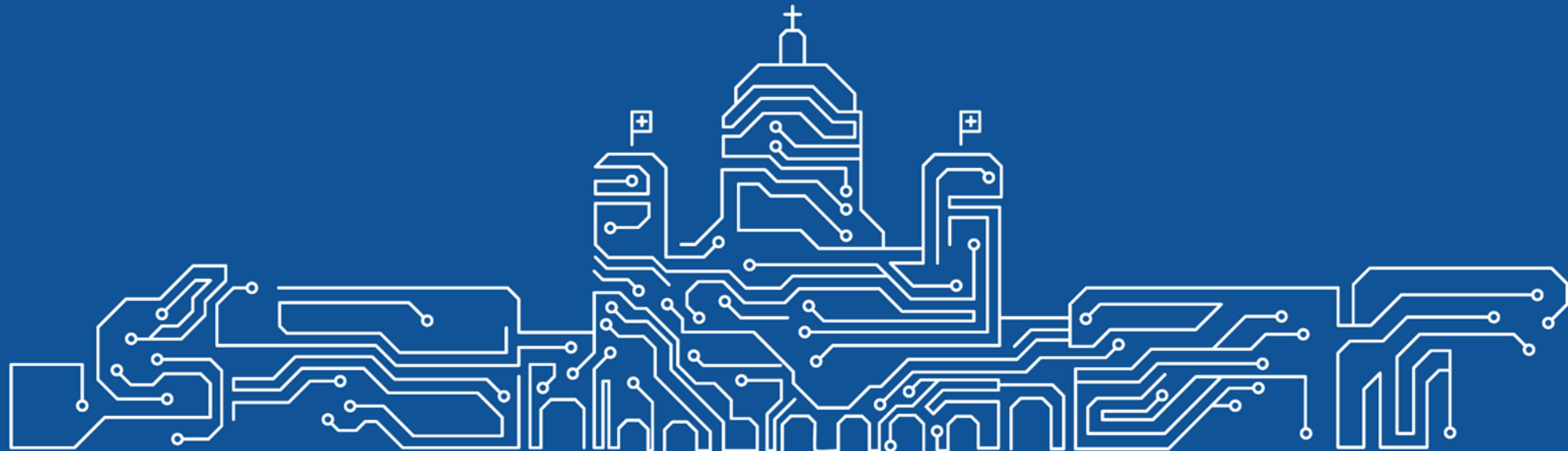


Schweizerische Eidgenossenschaft  
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Federal Chancellery FCh  
Digital Transformation and ICT Steering Sector DTI

# SCION activities at the Swiss Federal Administration

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# Digital Sovereignty is a political discussion





# Cloud Strategy of the Federal Administration: Hybrid Multi-Cloud

- **Contracts with Public Cloud Providers**
  - Request for Tender WTO-20007
  - Parallel negotiations with
    - Alibaba
    - Amazon
    - IBM
    - Microsoft
    - Oracle
  - Complex legal, technical and organizational work
  - 4 teams: contract negotiations, internal processes, legal, communication
- **SCION as an option in all five contracts**

[Netzwoche: Wie sich der Bund auf die Public Cloud vorbereitet](#)



[Cloud Strategie der Bundesverwaltung](#)



# Four SCION use cases will be analyzed

- **WAN - closed usergroup in CH**  
Establishment of a solution that networks the various locations of the federal administration and connects the cantons with each other. The goal is a private network that is not accessible via the Internet. The solution is based on standard products and is expandable (number of sites, bandwidth).
- **Hyperscaler Link**  
Connecting the federal government network to the 5 hyperscalers of the WTO-20007 (AWS, Microsoft Azure, Alibaba, IBM, and Oracle) with an easily extensible solution. The 5 hyperscalers must be able to be connected with the same technical capabilities.
- **Application server / RAS**  
Employees and citizens should be guaranteed access to federal administration services (VPN servers, remote access, websites, online services) at all times, even during major cyber attacks.
- **WAN - Closed usergroup international**  
Establishment of a solution to network federal administration sites abroad with Switzerland. The goal is a private network that is not accessible via the Internet. It must be based on standard products and be expandable (number of sites, bandwidth, redundancies).



# Questions to be examined in the SCION study

- Market-ready solutions, not technologies or individual products, are procured
- Market maturity must be given for operators (simple operation, monitoring, "cockpit")
- An SLA is offered for the solutions
- The current Layer 3 technologies (IPv4 and IPv6) can be used without modification
- Support of mobile sites
- Testing of all components / software / configurations
- Avoidance of visibility and detectability of metadata
- Robustness against cyber attacks (BGP attacks, DDoS, etc.)
- Path redundancy, provider redundancy, fallback solutions, power resilience.



# Postulate: Secure data traffic of the federal administration

- The Federal Council is instructed to show which technologies can be applied to secure internet data traffic against cyber attacks.
- Focus on offices of the federal administration, affiliated companies, to the cantons, and the public in critical areas
- In particular, the report aims to examine the potential of different communication infrastructures to define the flow of data geographically and thus better protect against external attacks.
- Show the report the relationship to the expected benefits and the expected costs of these technologies.
- “A focus will be placed on the open communication standard **SCiON, developed at ETH Zurich**. [...] this standard enables network participants to control the path of their data packets.”

[Postulate: Secure data traffic of the federal administration \(Curiavista\)](#)

23.3958	POSTULAT
Datenverkehr der Bundesverwaltung sichern	
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Einreichungsdatum:	20.06.2023
Eingereicht im:	Nationalrat
Stand der Beratungen:	Überwiesen an den Bundesrat



# Digital Transformation and ICT Steering (DTI) of the Federal Chancellery

