

BAS





Information session TLS 1.3

Testing acceptance environment

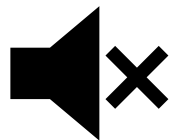
18 January 2024



BAS B.V. // 18 January 2024 // AMERSFOORT

Welcome to the information session TLS 1.3

Testing acceptance environment



Mute your microphone.



Turn **off** your camera.



Ask questions via **the chat feature**. We are working with a moderator.



Presentation on **mijnMFFBAS**.



The session is being recorded.



The session will be **available** for 4 weeks.
E-mail projecten@mffbas.nl



Recording is taking place for interested parties, with your approval.



All questions and answers will be placed on **mijnMFFBAS**.

TLS 1.3

End dual phase 1 April 2024

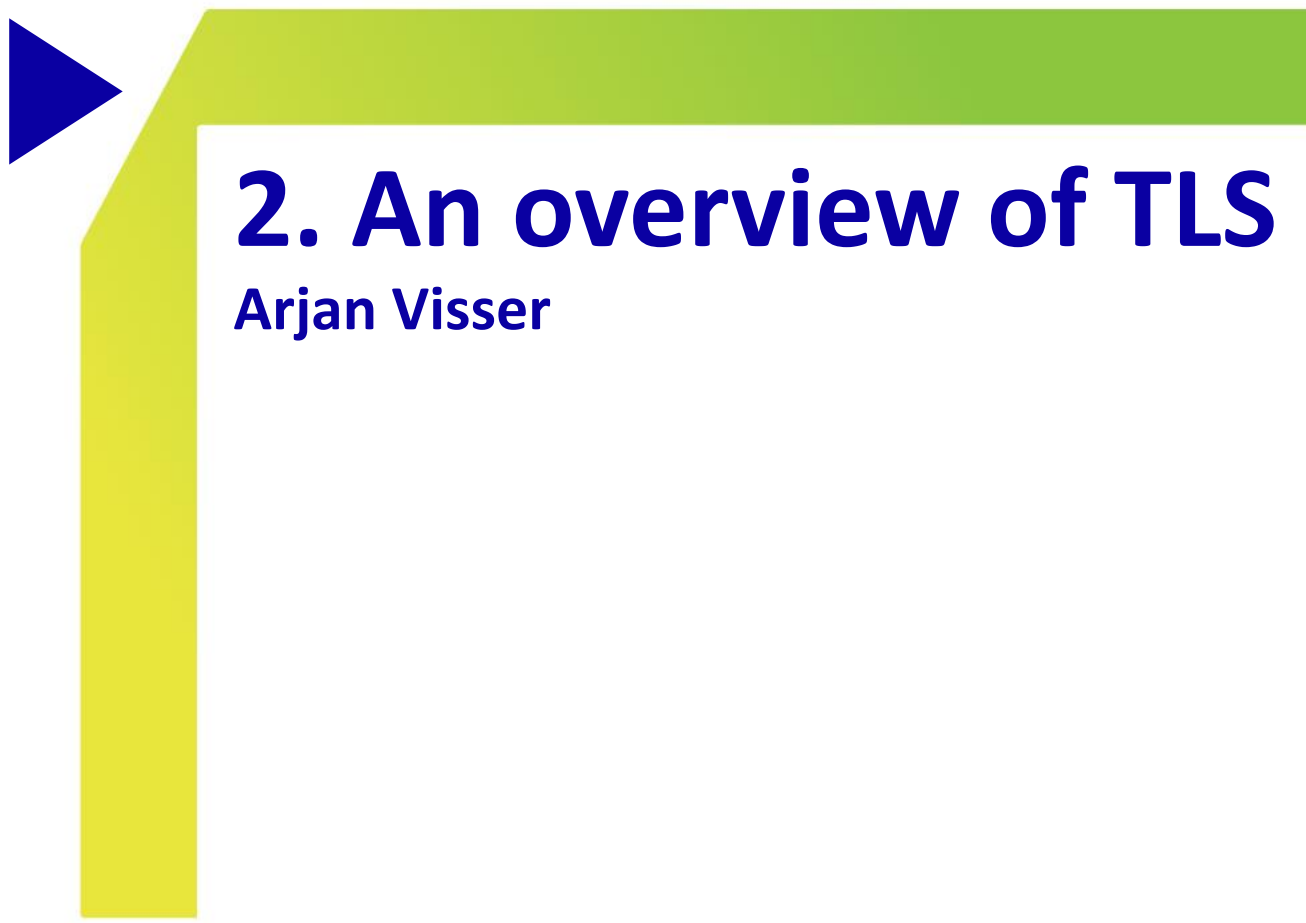


1. Introduction

Mirjam van der Horst

Agenda

1. Introduction (Mirjam van der Horst)
2. An overview of TLS 1.3 (Arjan Visser)
3. EDSN – Testing on acceptance environment (Leander Hiele)
4. TenneT – Testing on acceptance environment (Gerwin Bruynooge)
5. References (Amanda Zachariasse)



2. An overview of TLS 1.3

Arjan Visser

What is TLS?

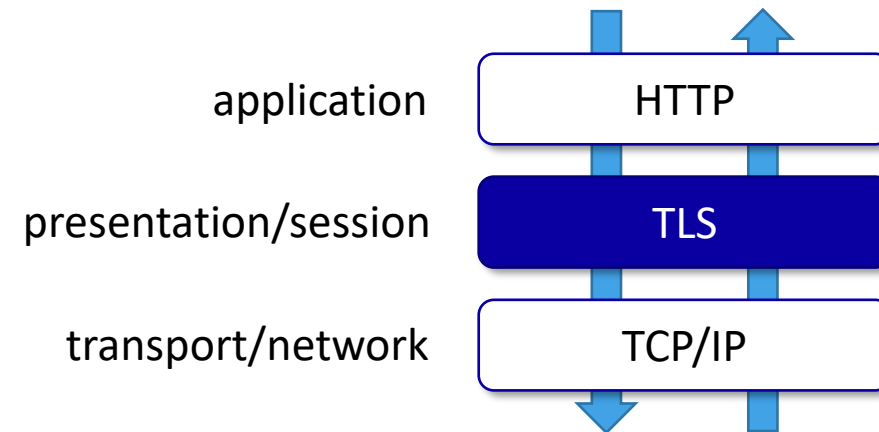
Transport Layer Security – secure connection thanks to encryption and authentication

What is TLS?

- ✓ TLS (Transport Layer Security) is a security protocol for data security
- ✓ Secure HTTP(S) connection thanks to encryption and authentication
- ✓ Between HTTP and TCP/IP

History

- ✓ TLS 1.2 has existed since 2008, TLS 1.3 since 2018
- ✓ Energy sector has worked with TLS 1.2 since 2016



Why go from TLS 1.2 to TLS 1.3?

Ensure secure data exchange across the whole sector



Urgency

TLS 1.2 is 'outdated', and there is *increasing* chance of vulnerabilities.

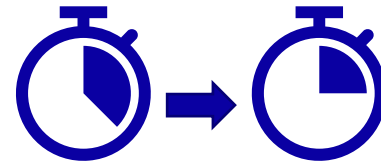
The security offered by TLS 1.3 is more robust and has improved encryption algorithms that feature no known shortcomings.



Security

TLS 1.3 is more reliable and safer than TLS 1.2.

In January 2021, the National Cyber Security Center (NCSC) downgraded TLS 1.2 from **good** to **sufficient**.



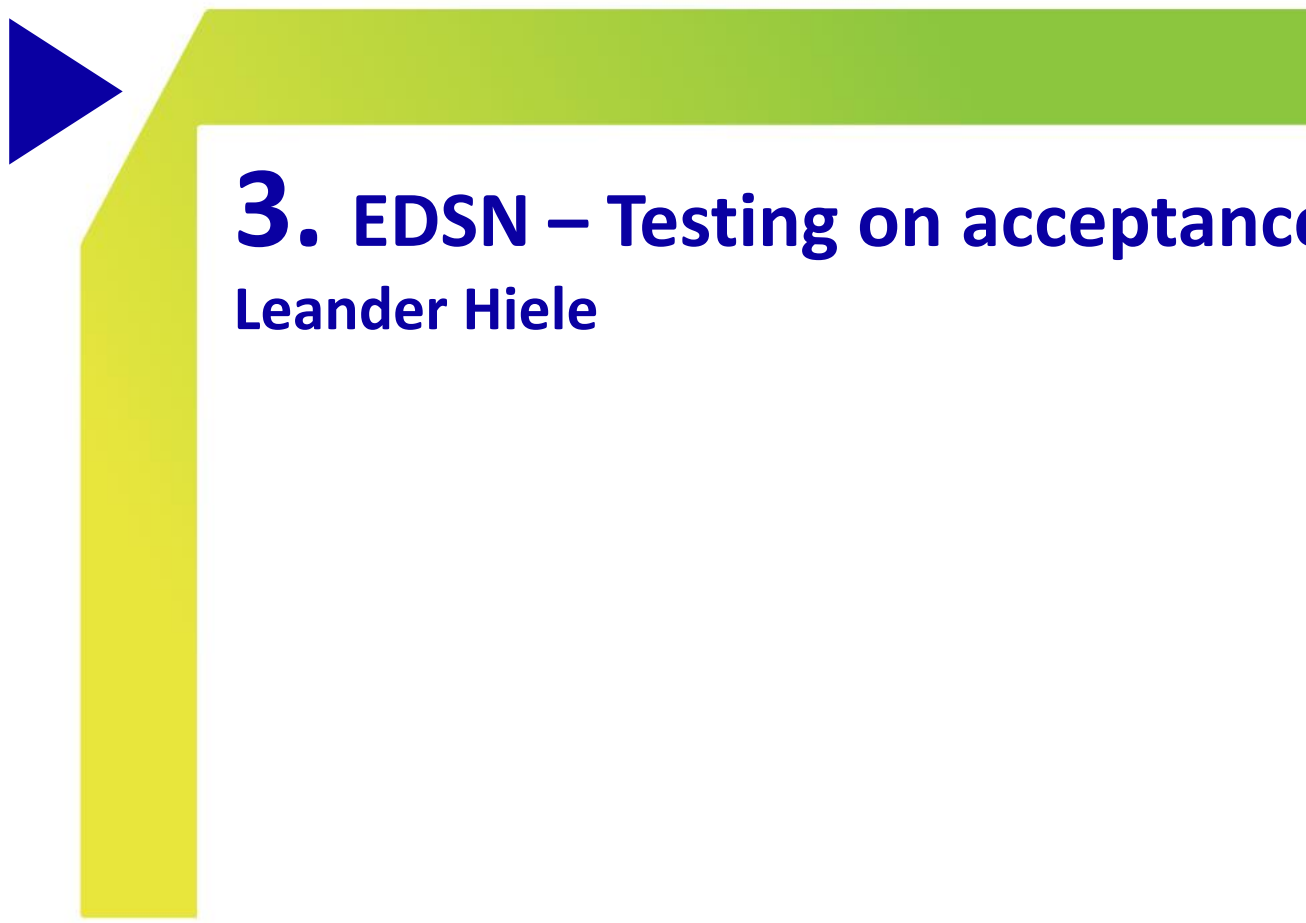
Speed

TLS 1.3 improves the speed of messages because the protocol contains fewer steps between the server and the client



Agreement

- ✓ Issue TC043 was approved by the NEDU GMM on 11/11/20
- ✓ All systems will switch to TLS 1.3 by 31-3-2024
- ✓ Introduction plan has been approved in MFF General Meeting of Members



3. EDSN – Testing on acceptance environment

Leander Hiele

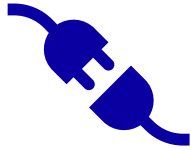
Testing on acceptance environment

Systems and sub-systems

System	URL acceptance	Period only TLSv1.3
Axway API Gateway, Axway B2Bi, KONG gateway, Toestemmingsplatform, Energiedatalink Provider, CERES	b2b.gateway-acc.edsn.nl / gateway-acc.edsn.nl	Available as of 22-1-2024 09:00 o'clock
C-AR/Portal	portaal-act.edsn.nl	Available as of 22-1-2024 09:00 o'clock
C-ARM	arm-act2.edsn.nl	Available as of 22-1-2024 09:00 o'clock
Data sharing platform	api.acc.mijnenergieedata.nl www.acc.mijnenergieedata.nl	Available as of 22-1-2024 09:00 o'clock
EAN code book	b2b.gateway-acc.edsn.nl / gateway-acc.edsn.nl	Available as of 22-1-2024 09:00 o'clock
Gopacs	N/A	N/A
Nexus	N/A	N/A
Portal CTS	pp4-test.edsn.nl	Available as of 22-1-2024 09:00 o'clock
TMR	N/A	N/A
CSS	https://css-dat3.edsn.nl/css/	Is already live due to another end point.

Support

Connect, test, support



Connection

- Only CSS has another end point; other systems will retain the existing one;
- A test certificate may be needed for testing. If this is not present or has expired, then send a test certificate request to:
servicedesk@edsn.nl



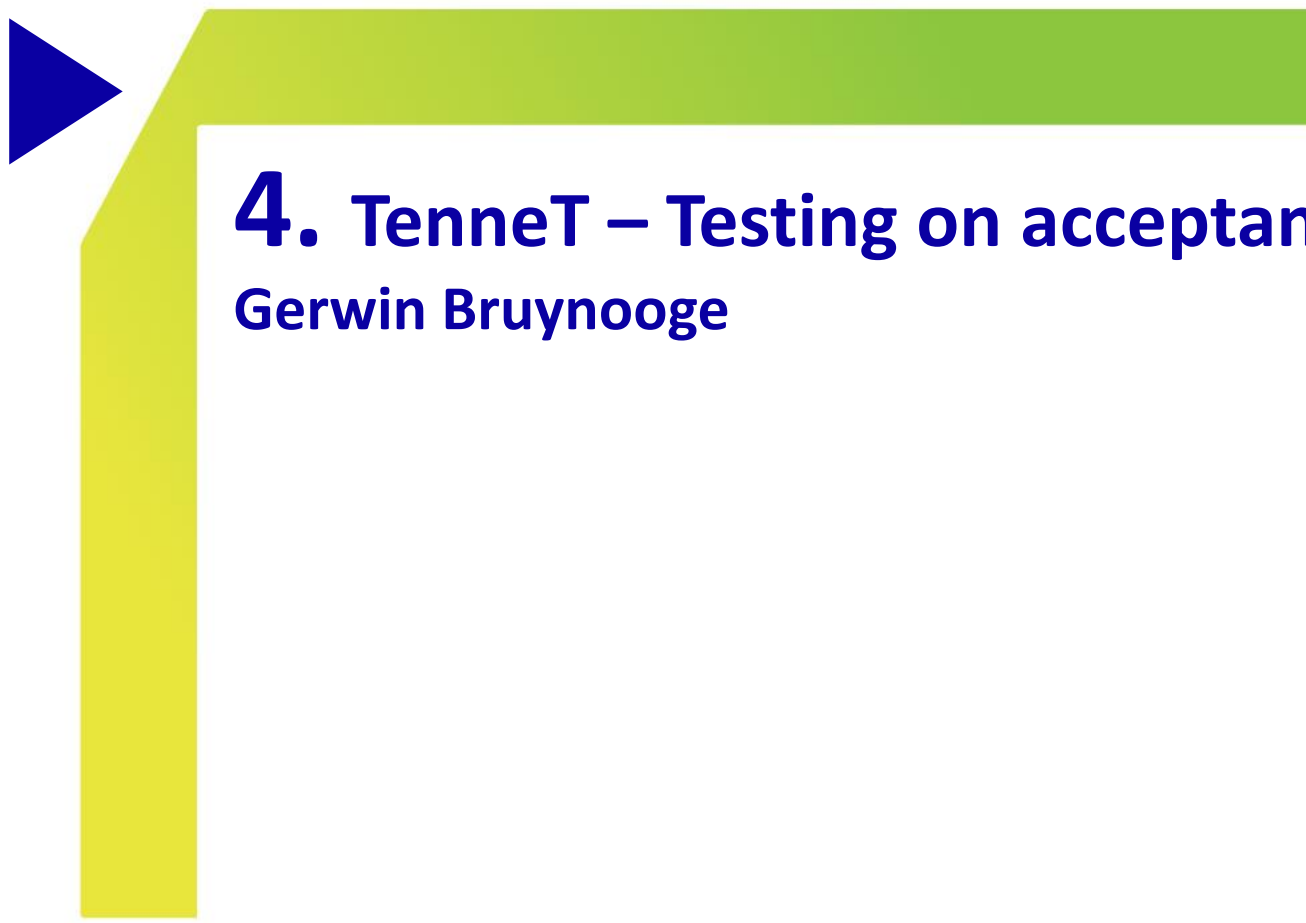
Testing

- Testing can be carried out in the usual manner, and at your own convenience. Support for the mentioned systems will be available to you if necessary.



Support

- EDSN service desk (servicedesk@edsn.nl) ready to assist you. Mention the following as subject: TLS 1.3 - <Application name> - Problem/question



4. TenneT – Testing on acceptance environment

Gerwin Bruynooge

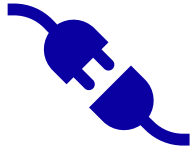
Testing on acceptance environment

Systems and sub-systems

System (Acceptance)	Only TLS 1.3	Per date
MMC Hub	YES	1 February 2024
CPS	Mail system; will continue to support TLS 1.2	1 February 2024
TQF	Back-end system	1.3 ready
APFAS	Back-end system	
OSB for legacy websites	Back-end system	1.3 ready
CBP	Back-end system	1.3 ready
GOPACS adapter	Back-end system	1.3 ready
FCR web services	Back-end system	1.3 ready
API Gateway (KONG) / TMAC	Back-end system	1.3 ready
MHS	Back-end system	1.3 ready
TIPCO	Back-end system	
My.TenneT.eu	YES	1 February 2024

Support

Connect, test, support



Connection

- TenneT will retain the existing end points to connect with the applications.



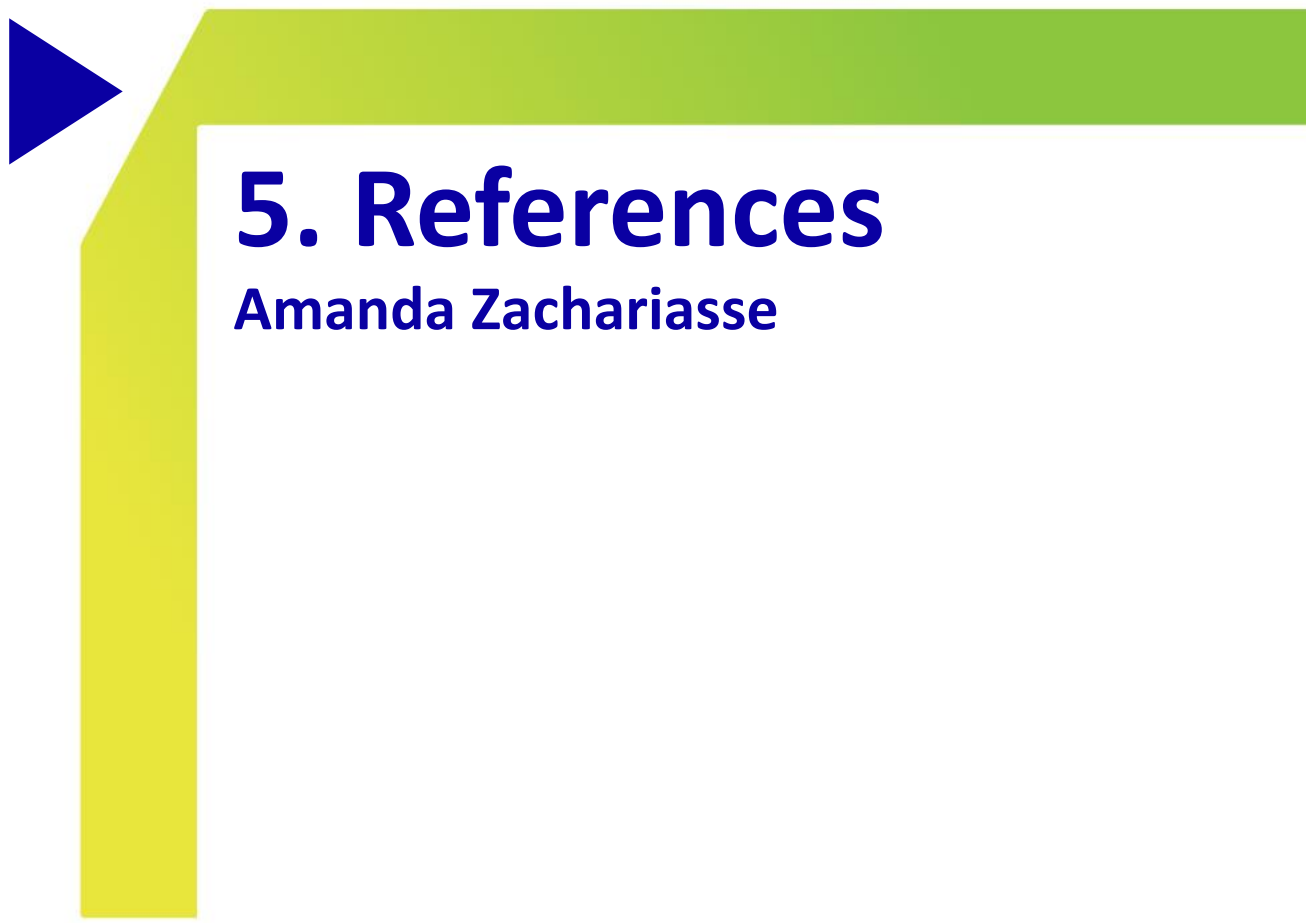
Testing

- Testing can be carried out in the usual manner, and at your own convenience.



Support

- Via the TenneT Customer Care Center:
tennetccc@tennet.eu
- Content-related questions should be sent to the PO
- General questions should be sent to BAS



5. References

Amanda Zachariasse

Remain up-to-date

All relevant documents can be found on mijnMFFBAS

 **Mijn MFFBAS**

SharePoint

Relevant documentation can be accessed via mijnMFFBAS.

Request access, also for non-members



Updates

Updates will be placed in the SharePoint environment mijnMFFBAS. For example, about converting the acceptance environments.



Newsletter

A regular update will be provided via the newsletter



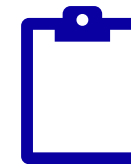
Monitoring

All market parties can test on the acceptance environment of EDSN and TenneT when it suits them.



Phone calls

All market parties will be approached by phone in order to create an inventory for market readiness. Make sure that the contact details are up-to-date via Partners in Energie.



Cut-off point market readiness

In February, a final request will be sent via e-mail, where market parties will have the chance to say that they are NOT ready.

Quick Reference Card: TLS 1.3



TLS 1.3

What is TLS?

Transport Layer Security is a security protocol for data security.

Info sheet NCSC about TLS – [download here](#)

Why TLS 1.3?

TLS 1.2 is becoming more vulnerable. TLS 1.3 is faster, securer and more future-proof. Market agreements have been made to implement TLS 1.3.



Information overview

Directly to all documents: <https://mffbas.sharepoint.com/sites/TLS1.3>

- ☐ [1. Dashboard readiness central systems and market parties](#)
- ☐ [2. Information session TLS 1.3 16 May 2023](#) (presentation, questions & answers)
- ☐ [3. Settings and end points](#)



Help desk

Always mention 'TLS 1.3' in the e-mail subject and, wherever possible, also the name of the application.

EDSN - servicedesk@edsn.nl

Content-related questions and questions about the systems of EDSN.

TenneT - tennetccc@tennet.eu

Content-related questions and questions about the systems of TenneT.

MFFBAS - projecten@mffbas.nl

Questions about planning and organisation.



Systems within CMF landscape

EDSN

End date TLS 1.2: 01-04-2024
14 central systems in CMF landscape

- | | |
|--------------------------|-----------------------|
| 1. Axway API Gateway | (incoming) |
| 2. C-AR (incoming) | 8. Nexus (outgoing) |
| 3. C-AR (outgoing) | 9. Portal CTS |
| 4. C-ARM | 10. TMR (outgoing) |
| 5. Data sharing platform | 11. CSS |
| 6. EAN code book | 12. Gopacs (outgoing) |
| 7. Gopacs | 13. Nexus (incoming) |
| | 14. TMR (incoming) |

TenneT

End date TLS 1.2: 01-04-2024
10 central systems in CMF landscape

- | | |
|----------------------------|------------------------|
| 1. MMC Hub | 7. GOPACS adapter |
| 2. CPS | 8. FCR web services |
| 3. TQF | 9. B2B gateway |
| 4. APFAS | 10. API Gateway (KONG) |
| 5. OSB for legacy websites | |
| 6. CPB | |

The systems above are the main systems. The connections and underlying systems can be found in the documentation on mijnMFFBAS: 1. dashboard or 2. information session.



Settings

NCSC rating	Key exchange	Certificate-verification	Bulk encryption and hashing	Elliptical functions	Finite-field groups	RSA key length
Good	• ECDHE	• ECDSA • RSA	• TLS-AES256-GCM-SHA256 • TLS-AES256-GCM-SHA384 • TLS-CHACHA20-POLY1305-SHA256	• Sep384r1 • Sep256r1 • X448 • X25519		• > 3072 bit
Sufficient	• DHE				• ffdhe4096 • ffdhe3072	• 2048 – 3071 bit
Insufficient			• TLS-AES128-CM-SHA256			

The settings can also be found in the presentation for the online information session, and under settings.