

**Aanbesteding** SURFnet8 Service Layer Tender  
**Aanbestedende Dienst:** SURFnet B.V.  
**Referentie:**

**Omschrijving:**

SURFnet is searching for a Partner that can provide a solution for the SURFnet8 service layer. The aim of the Tender Procedure is to award a Contract to a Partner that can provide the requested equipment, services, innovation and support.

SURFnet is aiming for an advanced network with fully automated deployment of services in a programmatically controlled environment.

The network should be user centric, and incorporate and implement leading edge and emerging technologies building a flexible network.

The scope of the Contract for delivering the SURFnet8 service layer consists of;

1. Network equipment delivering network services:

- L2 services (P2P, MP2MP);
- L3 services (IP transit, VPN);

2. Software for provisioning and management of the network elements;

3. Software for provisioning and management of the network services.

In addition to the equipment and software, the scope of the Contract consists of services delivered by the Partner for:

4. Maintenance and support of the network equipment and management software;

5. Design and implementation support of the service layer;

6. Migration process development.

**Toelichting:**

Dear Madam/Sir,

Please find herewith the answers to the additional questions received so far, concerning the SURFnet8 Service Layer Tender. Insofar this information notice contains modification and/or additions to the Qualification Document and/or previous information notices (Nota van Inlichtingen), the text in this notice prevails. Please take note of this document when preparing your submission.

Kind regards,

Jac Kloots

SURFnet

**Nr:****Categorie** Eisen en criteria

- 19 **Betreft** Qualification Document 20161201 FINAL Class of service.  
**Vraag**  
Class of service ==> Can you describe the difference between Class of service scenario and Dynamic control plane for Optimization scenario.  
**Antwoord** **Vrijgegeven:** 13-01-2017  
SURFnet hasn't yet specified the specific requirements for a network design in this phase of the tender procedure. The exact requirements will be defined in the request for proposal, and may be subject of the competitive dialogue.
- Nr:**
- 20 **Categorie** Eisen en criteria  
**Betreft** Qualification Document 20161201 FINAL Chapter 2.2.3 Orchestration.  
**Vraag**  
Orchestration. ==> Do you mean SURFnet already has the Orchestration and vendor need to connect with it by NBI? Do you need Orchestration synergy different technologies e.g. IP and Optical.  
**Antwoord** **Vrijgegeven:** 13-01-2017  
SURFnet does not yet have an Orchestration layer, but expects to implement such a layer in the future. Note that the exact requirements will be defined in the request for proposal, and may be subject of the competitive dialogue.
- Nr:**
- 21 **Categorie** Eisen en criteria  
**Betreft** Qualification Document 20161201 FINAL Chapter 2.2.3 Automation.  
**Vraag**  
Automation ==> Do you have same detail requirement about SBI and NBI protocol such as RESTful and Netconf ? How do you want to achieve service Automation for example: YANG model and model driven mechanism ?  
**Antwoord** **Vrijgegeven:** 13-01-2017  
SURFnet hasn't yet specified the specific requirements for a network design in this phase of the tender procedure. The exact requirements will be defined in the request for proposal, and may be subject of the competitive dialogue.
- Nr:**
- 22 **Categorie** Eisen en criteria  
**Betreft** Qualification Document 20161201 FINAL Chapter 2.2.3 Dynamic control plane,  
**Vraag**  
"control plane that is capable of delivering all data to the endpoints circumventing problem areas autonomously"  
Please elaborate about "problem areas". Does it means traffic congestion , long delay etc..?  
**Antwoord** **Vrijgegeven:** 13-01-2017  
SURFnet hasn't yet specified the specific requirements for a network design in this phase of the tender procedure. The exact requirements will be defined in the request for proposal, and may be subject of the competitive dialogue.
- Nr:**
- 23 **Categorie** Eisen en criteria  
**Betreft** Annex I. Showcase reference – transport and automation features (SC 1)  
**Vraag**  
Use of pluggable 10GE, 40GE and 100GE client optics.  
Use of 10GE CWDM pluggable optics.  
  
Although we actually have the CWDM and DWDM ability in one single chassis in one reference, the customer may probably not use DWDM interface and CWDM the same time. Is it allowed to reply these items with the equipment's ability?  
**Antwoord** **Vrijgegeven:** 13-01-2017

The showcase reference should demonstrate vendor's abilities by showing how these abilities are actually implemented and used by the relevant customer. However, the elements listed (including pluggable client, CWDM, and DWDM optics) do not have to be installed in the same chassis; it is sufficient that they are present in the same network. Also, note that the elements listed for the showcase reference are not mandatory, but will lead to a higher score if they are all in place in the showcase reference.

Nr:

**Categorie** Eisen en criteria

**Betreft** Qualification Document 20161201 FINAL chapter 2.2.2 Services on SURFnet8

24

**Vraag**

Speeds of 25GE and 50GE might be an option depending on the uptake of these particular port types.

Could you kindly explain the scenario for 25G and 50G ports?

**Antwoord**

**Vrijgegeven:** 13-01-2017

SURFnet has not yet determined whether there is a demand for 25G and 50G client ports. Depending on users' demands and suppliers' capabilities, SURFnet may decide to add these speeds to its portfolio in the future.

Nr:

**Categorie** Eisen en criteria

**Betreft** Annex\_E\ Annex\_F\ Annex\_G

25

**Vraag**

The network has a total size of at least one hundred (100) (Ethernet and other types of) nodes. Does this mean more than 100 nodes of devices in the network are provided by one candidate?

**Antwoord**

**Vrijgegeven:** 13-01-2017

No, the networks as a whole must have at least 100 nodes; candidate may have provided a subset of these nodes.

Nr:

**Categorie** Eisen en criteria

**Betreft** Annex\_I\_Showcase\_reference\_SC\_1

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**Vraag**

DWDM interoperability with other equipment outside of Candidate's portfolio (showing that the optics are compatible with optics of other brands or vendors).

Does it mean the DWDM optical modules can also be used on other vendors equipment?

**Antwoord**

**Vrijgegeven:** 13-01-2017

It is sufficient to show that when connecting the DWDM TRX ports of your optic to the DWDM TRX ports of an optic of a different vendor, the established link will function error-free within the performance boundaries of the combined set of optical specifications (i.e. meeting power levels, OSNR levels, dispersion tolerances, etc...). SURFnet does not require that it must be possible to insert your DWDM optic into the equipment of a different vendor, or vice versa, in order to establish a link.

Nr:

**Categorie** Eisen en criteria

**Betreft** Annex\_I\_Showcase\_reference\_SC\_1

27

**Vraag**

Pluggable optic reusability within portfolio.

Does it mean if the tunable optical module can be used on other DWDM board of other vendors?

**Antwoord**

**Vrijgegeven:** 13-01-2017

No, this is not required. The optic must be used on any equipment supporting the same form factor and belonging to the same vendor's portfolio.

**Nr:**  
28

**Categorie** Eisen en criteria  
**Betreft** Question 16 from Nvl  
**Vraag**  
From the answer provided to question 15, do we understand that it is not allowed to submit more than one reference ?  
Candidate can provide more than one reference with all boxes applicable per minimum requirement.

**Antwoord** **Vrijgegeven: 13-01-2017**  
Candidate is not allowed to provide more than one reference per core competence. For example, when Candidate provides a reference for Annex E, it must be sure that all boxes are checked in order for this reference to comply to all specifications of this core competence (MR2). A Candidate may also use this reference to comply to the other core competences (MR3/Annex F and MR4/Annex G), as long as it complies to all specifications of these core competences and all boxes are checked.

**Nr:**  
29

**Categorie** Bestek/beschrijvend document  
**Betreft** Paragraph 4.3 & 4.3.2  
**Vraag**  
Within Paragraph 4.3, page 21 second it states: "Please be aware" states ".....It is however possible for Candidates to add additional third parties in the next phases of the Tender Procedure in order to fulfill specific specifications of the requested SURFnet8 service layer." Within sub-paragraph 4.3.2, last paragraph it states: "During execution of the Contract, the main contractor will need SURFnet's explicit authorisation to replace a subcontractor with another and/or to subcontract tasks for which subcontracting was not envisaged in the original Qualification Submission. SURFnet will not unreasonably withhold such authorization."

To avoid any misunderstanding can you please confirm that:

- The statement given on page 21 offers the opportunity to add additional subcontractors in the next phase of the procedure.
- The statement in 4.3.2 is applicable for subcontractors used to meet (a) core competence(s) as mentioned in MR2, MR3 and MR4 (Which need to complete Annex C, Annex D and sign a letter of intent).

If this is not in line with the intention of SURFmarket can you please elaborate to avoid non-compliant submissions.

**Antwoord** **Vrijgegeven: 13-01-2017**  
This interpretation is not correct. Subcontractors that are used by Candidate to meet one or more of the suitability requirements in section 5.3 and/or selection criteria in section 5.4 cannot be replaced during the remainder of this tender procedure nor during the execution of the contract. However, it is possible for Candidates to add additional third parties in the next phases of the tender procedure in order to fulfil specific specifications of the requested SURFnet8 service layer. If, during the execution of the contract, contractor wants to replace such third party with another and/or wants to subcontract tasks for which subcontracting was not envisaged in the original tender submission, it will need SURFnet's explicit authorisation.

**Nr:**  
30

**Categorie** Bestek/beschrijvend document  
**Betreft** Paragraph 4.3.2  
**Vraag**  
Within paragraph 4.3.2 it states "Please note that in case of subcontracting, all subcontractors must fill in the European Single Procurement Document in Annex D." The European Single Procurement Document (ESPD) is an online form which has to be completed within TenderNed.  
The main contractor has to submit the full response for qualification. Can you please give us guidance how subcontractors can complete the ESPD using this online form?

**Antwoord** **Vrijgegeven: 13-01-2017**

Subcontractors can complete the European Single Procurement Document (ESPD) by downloading the xml file 'uea\_121405\_20161130204540' from TenderNed and import it in the tool on the website from the European Commission at <https://ec.europa.eu/tools/espd>. The completed ESPD document of subcontractors must be added (as xml and PDF) to the Qualification Submission of Candidate through TenderNed.

Nr:

**Categorie** Eisen en criteria  
**Betreft** Annex\_E\ Annex\_F\ Annex\_G

31

**Vraag**

Since you ask for the Details of contact person customer, you know such information are usually confidential, and our European customers are usually unwilling to supply such info, Is it possible Surfnet require such info from more official method?

**Antwoord**

**Vrijgegeven:** 13-01-2017

As stated in paragraph 4.1.3, SURFnet is willing to sign a non-disclosure agreement with Candidate in order to exchange confidential material.

Nr:

**Categorie** Eisen en criteria  
**Betreft** Annex\_E\ Annex\_F\ Annex\_G

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**Vraag**

As to the requirement "the equipment has at least 250 BGP peers to other networks"; Even our routers can have far more than 250 BGP peers, But most of our referenced network are hierarchical and deploy reflect router. So is it possible that we supply the equipment's BGP peer capability?

**Antwoord**

**Vrijgegeven:** 13-01-2017

For our external connectivity to other networks, for example a router connected to an Internet Exchange, it is necessary to have the ability to have at least 250 BGP sessions on a single chassis. These 250 sessions vary in the amount of announced prefixes, from just a couple to several 100.000 prefixes. The equipment should be able to cope with these environments. Candidate must demonstrate, by means of the reference, that the equipment as deployed in the reference network has at least 250 BGP peers to other networks.

Nr:

**Categorie** Aanbestedingsprocedure  
**Betreft** Nota van Inlichtingen of former tender procedure

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**Vraag**

Are the questions and answers of the Nota van Inlichtingen that were issued during the first tender procedure in June/July 2016 still valid? If no, can you please validate them and make the correct adjustments?

**Antwoord**

**Vrijgegeven:** 13-01-2017

No, these are not valid since this tender concerns a new procedure, and adjustments have been made to the new Qualification Document. It is therefore not possible to validate the questions and answers from the previous Service Layer tender.

Nr:

**Categorie** Contractvoorwaarden  
**Betreft** Contract term

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**Vraag**

In the announcement of this PQQ on TenderNed, SURFnet stated about the contract term: "The maximum duration of the Contract is 8 years with an initial term of 4 years and 4 optional extensions of 1 year each." In the PQQ document SURFnet stated: "The maximum duration of the Contract is 6 years with an initial term of 4 years and 2 optional extensions of 1 year each." What is the correct contract term?

**Antwoord**

**Vrijgegeven:** 13-01-2017

Apologies for that. The correct contract term is 6 years with an initial term of 4 years and 2 optional extensions of 1 year each, as stated in the Qualification Document.