

Aan Participant ItT phase III DALI

kopie aan Project staff

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ons kenmerk Annex 11_DALI_Demo-assessment Clarification

Confidential

Demo-assessment Clarification

1. Demo-assessment DALI: Agenda and Location

The Demo-assessment will take place on 23 until 25 January 2016 and will last one day per tenderer.

Agenda demo-assessment

Time (CET)	Subject session 1	Subject session 2
08:15-09:00	Preparation by tenderer	
09:00-09:15	Start demo-assessment - Welcome	
09:15-09:30	Offer introduction by tenderer	
09:30-11:00	Hardware demonstration by tenderer	
11:00-12:00	Software demonstration by tenderer	Product security assessment
12:00-12:45	Lunch	
12:45-14:45	Hard- and software assessment	Tenderer security maturity assessment
14:45-15:00	Closure demo-assessment	

Location demo-assessment

Demo-assessment will take place in Regardz WTC Arnhem, Nieuwe Stationsstraat 10, 6811 KS Arnhem. Please consult Regardz reception for meeting-room.

An underground public parking facility is available at the location.

2. Notes for agenda

- Please respect stated time-frames to enable Enexis to assess all specified items.
- Be aware that two sessions (Hardware/software and Security-assessment) are planned simultaneously. Please adapt your representation on this agenda.
- During demo-assessment questions will be asked by Enexis delegates to verify conformity to specs (MR) or determining the degree of compliance to specs (AC). For additional Awarding Criteria refer to annex 1.
- Evading answers will be awarded as negative (MR) or with no score (AC). It is accepted to incidentally consult experts by phone if needed. Providing proof of compliancy based on documentation should be in Dutch or English.
- During the assessment Enexis will be assisted by external or independent experts. Since Enexis values good communication, verification of required language-skills (minimum level B2 of the European framework of references, refer requirements and annex 2 of this document) can be part of the demo-assessment.
- Please include a skilled expert in your delegation to perform software and hardware demo and assessment.

3. Preparation hard- and software verification

In order to enable Enexis to validate and assess the offer during hard- and software verification correctly, please keep below mentioned bullets in mind.

- Demonstrate DALI box as specified. Demo should result in a thoroughly insight for attendees in the functioning of the DALI-box and central management software.
- Be aware that Enexis is planning to validate Minimum-requirements and Awarding requirements from specification during the assessment. This will be based on the product shown. It is tenderers responsibility to demonstrate a correct functioning product.
- Based on the demo-assessment Enexis can alter her score (lower or higher) that has been awarded in phase II of this tender.
- Prepare a substation-configuration that corresponds with the Enexis-case (refer to previously distributed ItT Annex 2: "Accompanying letter" and provided specifications).
- As Enexis wants to assess the central interface, please prepare this functionality for the software-demo and the software-assessment.
- As Enexis wants to assess the remote configuration and remote management functionality in regard to Enexis use-case (refer annex 2 "Accompanying letter" of tender-documentation), please prepare this functionality for the software-demo and the software-assessment; including functionality to transfer firmware- and configuration-files from remote config environment to local device.

4. Preparation security verification

Introduction

Enexis wants to evaluate the security of the RTU itself, and the security maturity of the tenderer (e.g. how the tenderer deals with vulnerabilities). This will be done in two security evaluation sessions:

- Product Security
- Tenderer Security Maturity

Security Evaluation: Product Security (60 Minutes)

During the evaluation sessions, an interview will be held about the implemented security functionality. The goal is to assess the implementation of the minimum requirements and awarding criteria on security.

Questions for the interview:

General security-impression based on domain knowledge, maturity of security processes, understanding of criticality of domain and ability to answer Enexis' security related questions			
Question ID	Question	Evaluation / awarding criterion	Evidence
PS.1 Related but not limited to SFR.01	What evidence can you provide that the RTU has sufficient resources to update security functionality?	The interviewer will assess if the tenderer can show enough evidence that the RTU has enough resources to update security functionality. Results are: Yes → OK No → Not compliant with MR SFR.01	The interviewer will be looking for instance for information about available resources, how much these are already used, and which future security functionality was considered in the analysis.
PS.2 Related but not limited to SCR.01 SCR.02 SCR.03 SCR.04	How is communication on the WAN network protected? Which measures are taken to protect confidentiality and integrity? Which measures have been taken to protect against replay attacks? If end-to-end security is used (awarding criterion SCR.04), how is this implemented?	The interviewer will assess the thoroughness of the protection (for the ACs involved): 0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing how a VPN is configured, and providing evidence that this configuration meets all security requirements.
PS.3 Related but not limited to SSR.02 SSR.03	How is the firmware update process secured? If firmware signatures are implemented (an awarding criterion), how are these implemented?	The tester rates the measures used to protect firmware integrity as follows: • 20 points if firmware is digitally signed using public key cryptography • 5 points if firmware integrity is protected using cryptographically strong hash algorithm • 0 points otherwise	The interviewers will be looking for flow-diagrams and process descriptions for the firmware update process, including a description of which cryptographic algorithms are used, and how the keys used in these are protected.

PS.4 Related but not limited to SHR.01 SHR.02	Which measures have been taken to harden the RTU? Which services are needed on the RTU? Which measures have been taken to harden these services? Which measures have been taken to disable unnecessary services? Which accounts are there on the RTU? How are the privileges of these accounts minimized?	The interviewer will assess the thoroughness of the hardening measures: 0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	A list of services on the RTU and modem. A description of the measures taken to harden the RTU.
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Security Evaluation: Tenderer Security Maturity (90 Minutes)

Enexis will have a security interview with each of the top-3 of the DALI RTU tenderers. The main goal is to obtain an objective and thorough view on the expertise of the tenderer and its product-maturity.

Questions for the interview:

General security-impression based on domain knowledge, maturity of security processes, understanding of criticality of domain and ability to answer Enexis' security related questions			
Question ID	Question	Awarding criterion	Evidence
VSM.1 Related but not limited to SDR.01, SDR.06	What does your security organization look like? Which roles and responsibilities are in place?	0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing evidence on how security experts keep their knowledge up-to-date, what the company's strategy has been and is towards the latest security standards and best practices, what the security maturity level of the organization is, etc.
VSM.2 Related but not limited to SDR.01, SDR.04, SDR.05	How have acted upon the discovery of the Heartbleed or Poodle vulnerability? How did you first hear of this vulnerability and how did you act? How did you inform your customers? How much time did it take for you to release patches that solved the vulnerability? Do you offer additional services that must be purchased by us to get these patches?	0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing evidence on how customers were informed or a detailed action plan on how a certain security incident was tackled.
VSM.3 Related but not limited to SDR.01, SDR.02, SDR.03, SDR.05	How do you handle software configuration and change management?	0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing evidence on how the software development process is working, if and how a version management system is implemented.

VSM.4 Related but not limited to SDR.01	How do you know what security measures should be implemented on RTUs? How do you know what security measures should be implemented on you as an organization? Have you conducted a risk analysis of the domain you are working in and if yes what methodology did you use? How did you determine the risk levels and what appropriate measures should look like? What are the biggest risks in your opinion?	0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing evidence on having conducted a risk analysis or a mapping of selected measures to identified risks.
VSM.5 Related but not limited to SUR.01	Are there test reports available executed on the offered product from any performed type of independent security test, such as (for example) referred to in the BDEW whitepaper: 2.1.1.8 Internal and External Software, and Security Tests and Related Documentation (https://www.bdew.de/internet.nsf/id/it-sicherheitsempfehlunge)? What were the main findings? How often are such tests conducted in your organization? We would like to see these reports to verify conformance to MRs.	0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing evidence on having conducted an independent test and the action plan and implemented measures based on the findings of the report.
VSM.6 Related but not limited to SDR.04, SDR.05	Is there a list of known vulnerabilities and corresponding patches/firmware upgrades for each offered device? How is this list determined and how does the communication to your customers take place?	0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing evidence on having a list of known vulnerabilities or showing evidence on communication to customers.
VSM.7 Related but not limited to SDR.04	How, how soon, and how often were discovered vulnerabilities disclosed to your customers in the last 24 months?	0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing evidence on vulnerability disclosure process and examples of how concrete vulnerabilities were communicated to customers.
VSM.8 Related but not limited to SUR.03	Do you have any security QA process for your development team? If so, please provide artefacts like reports/credentials.	0 – Low, 5 – Average, 15 – Good or 20 – Outstanding	Depending on the amount of evidence and explanation the score can be changed (+ or -). E.g. showing evidence of a mature QA process, independent CMM certification or secure coding standards or security certifications for developers.

Furthermore, Enexis can ask the tenderers some questions not listed in this document based on the answers given if further clarification is needed.

5. Follow-up demo-assessment

After the demo-assessment, the best awarded offer will be invited to assess minimal 3 topics in more depth, in order to validate if candidate is able to comply with the stated requirements. The related topics are:

- Security requirements
- Communication requirements
- Environment requirements

This additional assessment will start on the 20th of February 2017 (and will last approximately 6 weeks).

Verification will be performed on the best awarded product so far. If this product fails the tests, second best awarded tenderer/product will be invited for the tests. Etc.

Please be aware that this verification does also require:

- 3 DALI-boxes as specified (additional tests will be performed in parallel).
- Delegate(s) to inform independent test institutes about relevant product-details or to comment on any findings.

6. Questions

If the supplied technical information in regard to the demo-assessment is not clear, technical questions can be addressed to stated Enexis-contacts. Questions have to be addressed at the latest 9th of December 2016. Answers will be supplied to all 3 participants.

Annex 1:

Additional Awarding Criteria ItT phase III – Demo-assessment

No.	Type	Type of requirement	Requirement description	Category	Max. score	Type of ranking	Clarification used Awarding principles
7.1.1	AC	Demo assessment - Hardware demo / verification	Simplicity of mounting and connecting of the box (ease of physical mounting and connecting based on practical findings field staff; more and/or complex actions will lead to lower score).	Userfriendliness field staff	10	Fixed: Laborious: 0; Moderate: 2,5; Easy: 5; Outstanding: 10.	<u>Outstanding:</u> In the opinion of Enexis the simplicity of the Tenderer's product is excellent in regard to number of actions and/or the complexity of actions needed to finish the stated criterion. Only two not complex actions are relevant to finish the job. <u>Easy:</u> In the opinion of Enexis the simplicity of the Tenderer's product fulfils Enexis' expectations in regard to the number of actions and/or the complexity of actions needed to finish the stated criterion. Two actions and specific tooling or devices, are relevant to finish the job. <u>Moderate:</u> In the opinion of Enexis the simplicity of the Tenderer's product does partly fulfil Enexis' expectations in regard to the number of actions and/or the complexity of actions needed to finish the stated criterion. Three ore more actions, or specific knowledge and/or skills are relevant to finish the job. <u>Laborious:</u> In the opinion of Enexis the simplicity of the Tenderer's product does not fulfil Enexis' expectations in regard to the number of actions and/or the complexity of actions needed to finish the stated criterion. Three ore more actions, or specific knowledge and/or skills and/or safety measures are relevant to finish the job. Note: more similar coherent actions are interpreted as only one action; multiple activities to achieve one goal (e.g. drilling holes and screwing bolts) are interpreted as one action.
7.1.2	AC		Simplicity of replacing emergency power module based on practical findings field staff (more and/or complex actions will lower the score).	Userfriendliness field staff	5	Fixed: Laborious: 0; Easy: 2,5; Outstanding: 5.	Refer to requirement 7.1.1
7.1.3	AC	Demo assessment - Hardware-demo / verification	Degree of distinctness and completeness (including interpretability) of status-visualisation (based on interpretation by field staff) DALI-box without opening door.	Userfriendliness field staff	15	Fixed: Low: 0; Moderate: 5; Good: 10; Outstanding: 15.	<u>Outstanding:</u> no remarks <u>Good:</u> 1 remark/finding <u>Moderate:</u> 2 remarks/findings <u>Low:</u> 3 or more remarks/findings A remark/finding can for example be a not available, visible or interpretable indicator as specified in annex 3, 4 or 5.
7.2.1	AC	Demo-assessment - Hardware demo / verification	Quality-, robustness and personal safety awarding based on used components and the perceived fit in regard to correct functioning in stated environmental conditions for at least 10 years of service.	Robustness	15	Fixed: Low: 0; Moderate: 5; Good: 10; Outstanding: 15.	<u>Outstanding:</u> no remarks <u>Good:</u> 1 remark/finding <u>Moderate:</u> 2 remarks/findings <u>Low:</u> 3 or more remarks/findings A remark/finding (based on interpretation by technical trained field staff) can be based on the enclosure, a hardware component inside the box or a connection which is of insufficient quality / robustness for the specified environmental conditions or where additional maintenance can be expected to ensure a life time of at least 10 years.

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7.3.1	AC	Demo assessment - Software demo / verification	Degree of completeness and clarity of visualisation I/O, alarms and events off DALI-boxes in central interface.	Userfriendliness central system-engineers	15	Fixed: Low: 0; Moderate: 5; Good: 10; Outstanding: 15.	<u>Outstanding:</u> no remarks <u>Good:</u> 1 remark/finding <u>Moderate:</u> 2 remarks/findings <u>Low:</u> 3 or more remarks/findings A remark/finding can for example be a not available or interpretable visualisation in the central interface as specified in annex 3, 4 or 5. E.g. status DI/DO, Measurements, actual Public Street Light and Tariff status and switch-Programs (incl. astronomic calendar).
7.3.2	AC		Degree of completeness and clarity of visualisation system parameters of all operational DALI-boxes in central interface.	Userfriendliness central system-engineers	15	Fixed: Low: 0; Moderate: 5; Good: 10; Outstanding: 15.	<u>Outstanding:</u> no remarks <u>Good:</u> 1 remark/finding <u>Moderate:</u> 2 remarks/findings <u>Low:</u> 3 or more remarks/findings A remark/finding can for example be a not available or hard to reach or to change system parameter in the central interface as specified in annex 3, 4 or 5. E.g. RTU and modem-parameters and settings (timers, etc), mobile network reception, emergency power parameters, NTP-settings (IP-addresses, actual time, etc), Security-settings and log-files.
7.3.3	AC		Degree of protection against impactful commands (switch-command, software changes, reset, etc.)	Userfriendliness central system-engineers	5	Fixed: Low: 0; Good: 2,5; Outstanding: 5.	<u>Outstanding:</u> no remarks <u>Good:</u> 1 remark/finding <u>Low:</u> 2 or more remarks/findings A remark/finding can for example be a not available protection on impactfull commands available in the central interfacea.E.g. overruling Public street Light commands, Configuration-updates, firmware-updates, etc.
7.4.1			Ease of use getting a operational communication-interface (authentication etc.) between central OT-domain and DALI-box during commissioning-process, taking into account Enexis use-case (comprehensiveness; i.e. amount of actions to create an accepted and operational communication connection).	Userfriendliness central system-engineers - during initial commissioning	25	Relative (higher score in case of less comprehensiveness / complexity)	Criterion will be awarded relatively based on comprehensiveness (number on actions; e.g. selections and/or entries) and complexity (number of programs; e.g. different applications) needed to transform a default configuration to an specific substation configuration (e.g. only one MV-bay Short Circuit indicator present; different transformation ratio current transformers). Actions and programs are weighted as 1:2 (2 programs count as 4 actions). <u>Best ease of use: 25</u> Lowest comprehensiveness and complexity: <u>Second best ease of use: 12,5</u> Second lowest comprehensiveness and complexity <u>Third best ease of use: 0</u> Third lowest comprehensiveness and complexity.
7.4.2	AC		Ease of use getting application-data (configuration data) in place on DAU-box during comissioning proces (comprehensiveness and complexity; i.e. amount of programs and/or actions to complete configuration).	Userfriendliness central system-engineers - during initial commissioning	25	Relative (higher score in case of less comprehensiveness / complexity)	Refer 7.4.1

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7.5.1	AC		Ease of use getting firmware-updates (including patches) in place on (groups of) operational DALI-boxes, taking into account Enexis use-case (comprehensiveness to complete updates; i.e. amount of actions).	Userfriendliness central system-engineers - during management phase	10	Relative (higher score in case of less comprehensiveness / complexity)	Criterion will be awarded relatively based on comprehensiveness (number on actions; e.g. selections and/or entries) and complexity (number of programs; e.g. different applications) needed to update (groups of) DALI-boxes. Actions and programs are weighted as 1:2 (2 programs count as 4 actions). <u>Best ease of use: 10</u> Lowest comprehensiveness and complexity: <u>Second best ease of use: 5</u> Second lowest comprehensiveness and complexity <u>Third best ease of use: 0</u> Third lowest comprehensiveness and complexity.
7.5.2	AC		Ease of use getting configuration-file-updates (e.g.: adjusted threshold values) in place on (groups of) operational DALI-boxes, taking into account Enexis use-case (comprehensiveness to complete updates; i.e. amount of actions).	Userfriendliness central system-engineers - during management phase	10	Relative (higher score in case of less comprehensiveness / complexity)	Refer 7.5.1
7.5.3	AC		Ease of use getting adjusted Public Street Light and Tariff Switching schemes in place for (groups of) DALI-boxes (Comprehensiveness to complete configuration; i.e. amount of actions).	Userfriendliness central system-engineers - during management phase	10	Relative (higher score in case of less comprehensiveness / complexity)	Refer 7.5.1
7.6.1	AC	Demo-assessment - Security evaluation: Product Security	Refer Questions in Annex 11: Demo assessment clarification.	Security	20	Refer Annex 11: Demo assessment clarification; Achieved score will be divided by 3 to align with stated weight; max. score (= 60) will result in 20 points).	Refer Annex 11: Demo assessment clarification;
7.6.2	AC	Demo-assessment - Security evaluation: Tenderer security maturity assessment	Refer Questions in Annex 11: Demo assessment clarification.	Security	20	Refer Annex 11: Demo assessment clarification; Achieved score will be divided by 8 to align with stated weight; max. score (= 160) will result in 20 points).	Refer Annex 11: Demo assessment clarification;

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Annex 2:
European Framework for Languages

		A1	A2	B1	B2	C1	C2
U N D E R S T A N D I N G	Listening	I can understand familiar words and very basic phrases concerning myself, my family and immediate concrete surroundings when people speak slowly and clearly.	I can understand phrases and the highest frequency vocabulary related to areas of most immediate personal relevance (e.g. very basic personal and family information, shopping, local area, employment). I can catch the main point in short, clear, simple messages and announcements.	I can understand the main points of clear standard speech on familiar matters regularly encountered in work, school, leisure, etc. I can understand the main point of many radio or TV programmes on current affairs or topics of personal or professional interest when the delivery is relatively slow and clear.	I can understand extended speech and lectures and follow even complex lines of argument provided the topic is reasonably familiar. I can understand most TV news and current affairs programmes. I can understand the majority of films in standard dialect.	I can understand extended speech even when it is not clearly structured and when relationships are only implied and not signalled explicitly. I can understand television programmes and films without too much effort.	I have no difficulty in understanding any kind of spoken language, whether live or broadcast, even when delivered at fast native speed, provided. I have some time to get familiar with the accent.
	Reading	I can understand familiar names, words and very simple sentences, for example on notices and posters or in catalogues.	I can read very short, simple texts. I can find specific, predictable information in simple everyday material such as advertisements, prospectuses, menus and timetables and I can understand short simple personal letters.	I can understand texts that consist mainly of high frequency everyday or job-related language. I can understand the description of events, feelings and wishes in personal letters.	I can read articles and reports concerned with contemporary problems in which the writers adopt particular attitudes or viewpoints. I can understand contemporary literary prose.	I can understand long and complex factual and literary texts, appreciating distinctions of style. I can understand specialised articles and longer technical instructions, even when they do not relate to my field.	I can read with ease virtually all forms of the written language, including abstract, structurally or linguistically complex texts such as manuals, specialised articles and literary works.
S P E A K I N G	Spoken Interaction	I can interact in a simple way provided the other person is prepared to repeat or rephrase things at a slower rate of speech and help me formulate what I'm trying to say. I can ask and answer simple questions in areas of immediate need or on very familiar topics.	I can communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar topics and activities. I can handle very short social exchanges, even though I can't usually understand enough to keep the conversation going myself.	I can deal with most situations likely to arise whilst travelling in an area where the language is spoken. I can enter unprepared into conversation on topics that are familiar, of personal interest or pertinent to everyday life (e.g. family, hobbies, work, travel and current events).	I can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible. I can take an active part in discussion in familiar contexts, accounting for and sustaining my views.	I can express myself fluently and spontaneously without much obvious searching for expressions. I can use language flexibly and effectively for social and professional purposes. I can formulate ideas and opinions with precision and relate my contribution skilfully to those of other speakers.	I can take part effortlessly in any conversation or discussion and have a good familiarity with idiomatic expressions and colloquialisms. I can express myself fluently and convey finer shades of meaning precisely. If I do have a problem I can backtrack and restructure around the difficulty so smoothly that other people are hardly aware of it.
	Spoken Production	I can use simple phrases and sentences to describe where I live and people I know.	I can use a series of phrases and sentences to describe in simple terms my family and other people, living conditions, my educational background and my present or most recent job.	I can connect phrases in a simple way in order to describe experiences and events, my dreams, hopes and ambitions. I can briefly give reasons and explanations for opinions and plans. I can narrate a story or relate the plot of a book or film and describe my reactions.	I can present clear, detailed descriptions on a wide range of subjects related to my field of interest. I can explain a viewpoint on a topical issue giving the advantages and disadvantages of various options.	I can present clear, detailed descriptions of complex subjects integrating sub-themes, developing particular points and rounding off with an appropriate conclusion.	I can present a clear, smoothly-flowing description or argument in a style appropriate to the context and with an effective logical structure which helps the recipient to notice and remember significant points.
W R I T I N G	Writing	I can write a short, simple postcard, for example sending holiday greetings. I can fill in forms with personal details, for example entering my name, nationality and address on a hotel registration form.	I can write short, simple notes and messages. I can write a very simple personal letter, for example thanking someone for something.	I can write simple connected text on topics which are familiar or of personal interest. I can write personal letters describing experiences and impressions.	I can write clear, detailed text on a wide range of subjects related to my interests. I can write an essay or report, passing on information or giving reasons in support of or against a particular point of view. I can write letters highlighting the personal significance of events and experiences.	I can express myself in clear, well-structured text, expressing points of view at some length. I can write about complex subjects in a letter, an essay or a report, underlining what I consider to be the salient issues. I can select a style appropriate to the reader in mind.	I can write clear, smoothly-flowing text in an appropriate style. I can write complex letters, reports or articles which present a case with an effective logical structure which helps the recipient to notice and remember significant points. I can write summaries and reviews of professional or literary works.

Bijlage: Common European Framework of Reference - globale niveauomschrijvingen						
	A1	A2	B1	B2	C1	C2
Begrijpen Luisteren	Ik kan vertrouwde woorden en basiszinnen begrijpen die mezelf, mijn familie en directe concrete omgeving betreffen, wanneer de mensen langzaam en duidelijk spreken.	Ik kan zinnen en de meest frequente woorden begrijpen die betrekking hebben op gebieden die van direct persoonlijk belang zijn (bijvoorbeeld basisinformatie over mezelf en mijn familie, winkelen, plaatselijke omgeving, werk). Ik kan de belangrijkste punten in korte, duidelijke eenvoudige boodschappen en aankondigingen volgen.	Ik kan de hoofdpunten begrijpen wanneer in duidelijk uitgesproken standaarddialect wordt gesproken over vertrouwde zaken die ik regelmatig tegenkom op mijn werk, school, vrije tijd enzovoort. Ik kan de hoofdpunten van veel radio- of tv-programma's over actuele zaken of over onderwerpen van persoonlijk of beroepsmatig belang begrijpen, wanneer er betrekkelijk langzaam en duidelijk gesproken wordt.	Ik kan een langer betoog en lezingen begrijpen en zelfs complexe redeneringen volgen, wanneer het onderwerp redelijk vertrouwd is. Ik kan de meeste nieuws- en actualiteitenprogramma's op de tv begrijpen. Ik kan het grootste deel van films in standaarddialect begrijpen.	Ik kan een langer betoog begrijpen, zelfs wanneer dit niet duidelijk gestructureerd is en wanneer relaties slechts impliciet zijn en niet expliciet worden aangegeven. Ik kan zonder al te veel inspanning tv-programma's en films begrijpen.	Ik kan moeiteloos gesproken taal begrijpen, in welke vorm dan ook, hetzij in direct contact, hetzij via radio of tv, zelfs wanneer in een snel moedertaaltempo gesproken wordt als ik tenminste enige tijd heb om vertrouwd te raken met het accent.
Lezen	Ik kan vertrouwde namen, woorden en zeer eenvoudige zinnen begrijpen, bijvoorbeeld in mededelingen, op posters en in catalogi.	Ik kan zeer korte eenvoudige teksten lezen. Ik kan specifieke voorspelbare informatie vinden in eenvoudige, alledaagse teksten zoals advertenties, folders, menu's en dienstregelingen en ik kan korte, eenvoudige, persoonlijke brieven begrijpen.	Ik kan teksten begrijpen die hoofdzakelijk bestaan uit hoogfrequente, alledaagse of aan mijn werk gerelateerde taal. Ik kan de beschrijving van gebeurtenissen, gevoelens en wensen in persoonlijke brieven begrijpen.	Ik kan artikelen en verslagen lezen die betrekking hebben op eigentijdse problemen, waarbij de schrijvers een bepaalde houding of standpunt innemen. Ik kan eigentijds literair proza begrijpen.	Ik kan lange en complexe feitelijke en literaire teksten begrijpen, en het gebruik van verschillende stijlen waarderen. Ik kan gespecialiseerde artikelen en lange technische instructies begrijpen, zelfs wanneer deze geen betrekking hebben op mijn terrein.	Ik kan moeiteloos vrijwel alle vormen van de geschreven taal lezen, inclusief abstracte, structureel of linguïstisch complexe teksten, zoals handleidingen, specialistische artikelen en literaire werken.
Spreeken Interactie	Ik kan deelnemen aan een eenvoudig gesprek, wanneer de gesprekspartner bereid is om zaken in een langzamer spreekt tempo te herhalen of opnieuw te formuleren en mij helpt bij het formuleren van wat ik probeer te zeggen. Ik kan eenvoudige vragen stellen en beantwoorden die een directe behoefte of zeer vertrouwde onderwerpen betreffen.	Ik kan communiceren over eenvoudige en alledaagse taken die een eenvoudige en directe uitwisseling van informatie over vertrouwde onderwerpen en activiteiten betreffen. Ik kan zeer korte sociale gesprekken aan, alhoewel ik gewoonlijk niet voldoende begrip om het gesprek zelfstandig gaande te houden.	Ik kan de meeste situaties aan die zich kunnen voordoen tijdens een reis in een gebied waar de betreffende taal wordt gesproken. Ik kan onvoorbereid deelnemen aan een gesprek over onderwerpen die vertrouwd zijn, of mijn persoonlijke belangstelling hebben of die betrekking hebben op het dagelijks leven (bijvoorbeeld familie, hobby's, werk, reizen en actuele gebeurtenissen).	Ik kan zodanig deelnemen aan een vloeiend en spontaan gesprek, dat normale uitwisseling met moedertaalsprekers redelijk mogelijk is. Ik kan binnen een vertrouwde context actief deelnemen aan een discussie en hierin mijn standpunten uitleggen en ondersteunen.	Ik kan mezelf vloeiend en spontaan uitdrukken zonder merkbaar naar uitdrukkingen te hoeven zoeken. Ik kan de taal flexibel en effectief gebruiken voor sociale en professionele doeleinden. Ik kan ideeën en meningen met precisie formuleren en mijn bijdrage vaardig aan die van andere sprekers relateren.	Ik kan zonder moeite deelnemen aan welk gesprek of discussie dan ook en ben zeer vertrouwd met idiomatische uitdrukkingen en spreektaal. Ik kan mezelf vloeiend uitdrukken en de fijnere betekenissen precies weergeven. Als ik een probleem tegenkom, kan ik mezelf harnemen en mijn betoog zo herstructureren dat andere mensen het nauwelijks merken.
Productie	Ik kan eenvoudige uitdrukkingen en zinnen gebruiken om mijn woonomgeving en de mensen die ik ken, te beschrijven.	Ik kan een reeks uitdrukkingen en zinnen gebruiken om in eenvoudige bewoordingen mijn familie en andere mensen, leefomstandigheden, mijn opleiding en mijn huidige of meest recente baan te beschrijven.	Ik kan uitingen op een simpele manier aan elkaar verbinden, zodat ik ervaringen en gebeurtenissen, mijn dromen, verwachtingen en ambities kan beschrijven. Ik kan in het kort redenen en verklaringen geven voor mijn meningen en plannen. Ik kan een verhaal vertellen, of de plot van een boek of film weergeven en mijn reacties beschrijven.	Ik kan duidelijke, gedetailleerde beschrijvingen presenteren over een breed scala van onderwerpen die betrekking hebben op mijn interessegebied. Ik kan een standpunt over een actueel onderwerp verklaren en de voordelen en nadelen van diverse opties uiteenzetten.	Ik kan duidelijke, gedetailleerde beschrijvingen geven over complexe onderwerpen en daarbij sub-thema's integreren, specifieke standpunten ontwikkelen en het geheel afronden met een passende conclusie.	Ik kan een duidelijke, goedlopende beschrijving of redenering presenteren in een stijl die past bij de context en in een doeltreffende logische structuur, zodat de toehoorder in staat is de belangrijke punten op te merken en te onthouden.
Schrijven	Ik kan een korte, eenvoudige ansichtkaart schrijven, bijvoorbeeld voor het zenden van vakantiegroeten. Ik kan op formulieren persoonlijke details invullen, bijvoorbeeld mijn naam, nationaliteit en adres noteren op een hotelinschrijvingsformulier.	Ik kan korte, eenvoudige notities en boodschappen opschrijven. Ik kan een zeer eenvoudige persoonlijke brief schrijven, bijvoorbeeld om iemand voor iets te bedanken.	Ik kan eenvoudige samenhangende tekst schrijven over onderwerpen die vertrouwd of van persoonlijk belang zijn. Ik kan persoonlijke brieven schrijven waarin ik mijn ervaringen en indrukken beschrijf.	Ik kan een duidelijke, gedetailleerde tekst schrijven over een breed scala van onderwerpen die betrekking hebben op mijn interesses. Ik kan een opstel of verslag schrijven, informatie doorgeven of redenen aanvoeren ter ondersteuning vóór of tegen een specifiek standpunt. Ik kan brieven schrijven waarin ik het persoonlijk belang van gebeurtenissen en ervaringen aangeef.	Ik kan me in duidelijke, goed gestructureerde tekst uitdrukken en daarbij redelijk uitgebreid standpunten uiteenzetten. Ik kan in een brief, een opstel of een verslag schrijven over complexe onderwerpen en daarbij de voor mij belangrijke punten benadrukken. Ik kan schrijven in een stijl die is aangepast aan de lezer die ik in gedachten heb.	Ik kan een duidelijke en vloeiend lopende tekst in een gepaste stijl schrijven. Ik kan complexe brieven, verslagen of artikelen schrijven waarin ik een zaak weergeef in een doeltreffende, logische structuur, zodat de lezer de belangrijke punten kan opmerken en onthouden. Ik kan samenvattingen van en kritieken op professionele of literaire werken schrijven.