



Appendix A. Terms, definitions and abbreviations

1. Definitions

In addition to article 1 'Definitions' of the ARBIT2018, Parties allocate accompanying meaning to the following in the (combination of) words used with a capital letter.

(Combination of) Words	Meaning
Client	Synonym with ARBIT 'Contracting authority'
Delivery date	The date on which the delivery to the Purchaser takes place at the location of the Client.
FAT	Final delivery test 'in the plant' whether the RWIS complies with the requirements set.
FCD	'Floating Car Data': data directly from (GPS) systems of vehicles that are an alternative for (location-bound) detection, such as loops in the road surface.
Field Services	Performing repair and maintenance on technical installations on site.
Format Financial offer	Price quotation by the Contractor for the items indicated by the Client and that must be produced by the Contractor, as part of the Enrolment.
iFAT	Final delivery test 'in the plant' whether the RWIS integrally complies with the functional requirements set within the DVM system.
iSAT	The test alongside the road, whether the RWIS integrally complies with the functional requirements set within the Iciness reporting system.
Maintenance parties	Market parties that perform maintenance on systems or objects on behalf of RWS.
ODW-contract	The contract for the management and maintenance of the DVM chain alongside the road, which road side systems and road side stations are part of (all versions up to and including WKS 1.3 and iWKS).
Order assignments	Assignments issued by the Client to the Contractor via the order form.
POLO-LOC contract	The present contract for the management of the hardware and software in the road side station for traffic signalling.
Quick Reference Card	A short(ened) manual for a specific topic or Product.
Requirement specification	The requirements set for purposes of the technical specifications (DRS) and the processes (PRS), including Annexes and Appendices.
RITS (RODS)	The organisation within PPO to be installed by ITS (synonym with DVM systems); For this reason, RITS has concluded framework agreements (the so-called RODS-contract).
RWS infrastructure	The network infrastructure of RWS: the roads, waterways and water systems.
Urgent assignment	An order with a delivery time shorter than 90 calendar days.
SAT	The test alongside the road whether the iWKS-hw complies with the requirements set within the DVM system.
Urgent assignments	Assignments issued to the Contractor by the Purchaser, by means of the iWKS order form, with a guaranteed delivery time of 10 working days or less.
V&V methodology	Methodology used by Contractor to objectively and explicitly demonstrate that a certain requirement, deriving from the Agreement, is met.
VODK-contract	The contract for the management and maintenance of the DVM chain, from purchase to operation, which road side systems and road side stations are part of (all versions up to and including WKS 1.3 and iWKS).

2. Definitions

Parties allocate the accompanying meaning to the following in the Requirement specification without a capital letter used for (combination of) words.



(Combination of) Words	Meaning
19" rack	Suspension option for (electronic) equipment.
(DIN) rails	Standardised metal rail for the attachment of equipment (in racks).
active components	Components that will not function without voltage.
activity	A distinctive clearly described amount of work that can be performed in one or more steps by one or more persons.
actuator	DVM system to impose intended effects of applications upon road users (traffic lights, matrix actuators, route information panels, barriers).
application	Software for an end user, intended to carry out specific tasks.
aspect	Specific property of the system to be developed.
assemblage	The installation of the components in the casing, in accordance with the definitive design.
audit	An investigation that is performed with a systematic and disciplined approach, towards proper and reliable functioning of the internal organisation, by auditors employed by that organisation or working at an external organisation.
availability	The probability that the required function can be performed at any given time, under the present circumstances.
calamity	An unforeseen event, that affects the primary function(s) of the technical installations and for which the Contractor cannot be held liable and which cannot be attributed to performing or neglecting Work Activities by the Contractor. A ship collision or case of vehicle damage is regarded as a calamity.
casing	A (metal) cabinet (alongside the road) with design that allows for installation of hardware components.
commissioning	Making a system visible and have it fully functioning.
component	Everything inside the iWKS cabinet, except for the design. Some of the components were described in Appendix B 'Hardware components', at the Requirement specification.
control unit	Computer on which the iWKS application software is running.
cybersecurity	The prevention of hazards or damage caused by disruption, failure or misuse of ICT and Industrial Automation.
damage	A deviation to the desired situation, involving devaluation and for which a direct relation with the functionality cannot be established by definition.
decommissioning	Making a system invisible and ensuring that it is no longer (fully) operational.
definitive design	Design of the product that serves as a basis for the prototype.
demand	Description of the requested property of the product or service to be provided.
demolition	Activities aimed at the dismantling of a system that no longer needs to or is no longer able to fulfil its function.
design	The specific way in which a casing is partitioned (compartments, rack, rails, connections, cabling, connectors and the like) to be able to install and connect hardware components.
design	The elaboration established in documents, of the solution of a system, as part of the system specification.
designing	The degree of aesthetic quality of the system in coherence with its environment and fitting the desired ambition.
detector station	A implementation of the iWKS to detect vehicle passages by means of detection loops or alternative detection systems, such as radar.
discount	A contractually defined reduction to the agreed price for the Performance.
dismantlability	The ease with which raw materials are reclaimed, materials recycled and space can be created by demolishing the system.
documentation	Every description of the Performance and the properties thereof, whether or not specifically intended for the installation, implementation, the use, management and/or the maintenance thereof.
enrolment	Offer submitted by the Contractor, based on the Requirement specification.
eRecognition	authentication and authorisation for legal entities
ergonomics	The extent to which account is being taken of human physiological and psychological capacity, as well as needs in relation to the human environment, the workplace in particular, during the design and creation of spaces, items and systems used by people.
fact	An event or circumstance of which the reality has been established, as it was observed by the senses or measured by instruments.
finding	A fact established by the Client by means of a test. This could be either a positive or a negative finding.



function	The intended effect and/or operation of a system.
functional recovery	Short-term recovery of the function of a management object after a calamity or incident, to such an extent that the management object does not necessarily have the same appearance by definition and/or does not fully function anymore, by definition, in accordance with the specifications.
functioning	The demonstrable compliance of a product or service with the intended operation of achievement that is expected of it.
future-proofness	The extent to which the system is (to be made) suitable for future use.
hardware components (HW)	ICT equipment applied in casing to carry out specific functions (e.g. control unit, detector station).
health	The degree of wellbeing of persons who are related to the system. The aspect of health does not include matters that fall under the aspect of safety.
incident	An unforeseen event that affects the primary function(s) of the product.
information	Output from a system, process or action, required by a user to be able to perform his duty and which is to be provided by the system, process and/or action.
information need	Output from a system, process or action, required by a user to be able to perform his duty and which is to be provided by the system, process and/or action.
information provision	The entirety of resources (including ICT and IA), data collections and organisational designs, that serve for the provision of information.
initial situation	Situation upon the start of the Activities.
inspection	All efforts required to get an actual, reliable and complete image of the status of the technical installations, the risks related to the status and the control of these risks.
installation	The installation and connection of the Product and/or entering of software by the Contractor.
interface	Interconnection (association, bearer, channel) between two systems/parts of systems, along which a (sometimes dynamic) synergy or interaction can take place, between those systems/parts of systems.
key function	A position within the organisation of the Contractor that fulfils an essential function in the day-to-day implementation of the Agreement and is indeed applied for the implementation of the Agreement.
life cycle management	Process that guarantees that all components of the technical installations keep functioning and that prevents the arising of a situation in which outdated versions cause unnecessary incidents and risks.
location	A specifically defined geographical area.
loops	Copper wire applied into the road surface (as a sensor) and connected to the detector station to detect traffic.
maintainability	The probability that maintenance can be performed within the time defined for it, under the given circumstances.
maintenance	Activities performed with the aim to keep the functions of a system at the required quality level during the usage time.
malus	A compensation by the Contractor, agreed in advance, accruing to the Client or the Purchaser, if certain, pre-agreed objectives were not achieved by the Contractor within the previously agreed term.
management	The entirety of work activities and processes, that serves to reach such a status for an object or system, that the current Functioning and Performance can be effectively maintained throughout the life cycle.
matrix indicator	A sign above a lane or a road, as a warning for queues and to indicate whether and at which maximum speed the lane can be used.
monitors	The (electronic) viewing of management objects, elements, construction parts or parts thereof, with the aim to guarantee the functioning and performance of the technical installations, by gathering measurement data, in accordance with a fixed strategy, or sampling, in accordance with a fixed method, at a fixed locations, at fixed times, including the analysis of these measurement data.
mounting aids	Components and tools to support the assembly of components in a casing.
new hardware version	A subsequent version of the iWKS-hw with mainly new or altered functionalities, whether or not issued under a different name.
nuisance to surroundings	The degree of hinder for the surroundings, caused by the system or by the use of the system (e.g. dust, noise, vibrations and stench).
object	A separate, identifiable part of a physical unit (regardless the location in the decomposition).
object	Individual identifiable part of a unit.
object tree	Hierarchic object structure of the system.



observation	Observation of the Contractor's work activities in the area of craftsmanship, human action and competences.
operating system object	The 3B or other control system of the object.
outdoor installation	Installation of a casing "in the field" (in the open air); this is the case with RWS (casing/cabinet is situated alongside the road). Note: comparable casings are also found 'indoors' (e.g. in computer centres); the requirements in these circumstances will differ.
overall design	Design that serves as a basis for the conversations with the Client about the functionality to be realised, in accordance with the specifications.
panel construction	The assembly of (DIN) rails, wiring and (modular) hardware components in casing designed for that purpose.
parties	RWS and Contractor
party	Legal entity that is involved with the Agreement.
performance	The ensuring that the intended functioning or performance of a product or service will be guaranteed up to the moment of intervention.
preventive maintenance	Maintenance that is performed proactively on buildings, installations and machines, to increase the reliability of the building, the installation or the machine, or to prevent damage, failure, deficiencies and nuisance at a later stage.
price	The compensation recorded by the Contractor for a specific part of the Assignment in the Template Financial Offer, belonging with the Enrolment.
process	An arrangement of the work activities to be performed by the Contractor in order to meet the requirements deriving from the Agreement.
production location	The location where the Contractor assembles the iWKS-hw.
project management	Organising and managing resources in such a way that a project will be completed within the scope defined, the agreed planning and the agreed budget.
quotation	The offer submitted by the Contractor, to the benefit of the realisation of additional work activities.
radar	Detection of objects (road vehicles) by use of radio waves.
realisation phase	Period from the start of the work activities up to the date of completion.
reference	Referral to a source that could provide more information about a specific situation or statement.
reliability	The probability that the required function will be performed under the given circumstances, during a certain time interval.
reporting	Report of something that was achieved, investigated or assessed.
resolution time	The time required by the contractor VODK-ODW to definitively restore a calamity or incident on the iWKS HW.
response time	The time required by a contractor to respond to a calamity or incident in the technical installations.
risk	Non-scheduled, undesired or desired event, with a certain risk of occurring.
safety	The extent to which somebody (or something) is protected from (the effects of) hazardous situations.
scope	The component of the technical installations and the work activities on this component of the technical installations, for which the Contractor is responsible, in accordance with the requirements deriving from the Agreement.
security	The degree of absence of potential causes for a hazardous situation or the degree of presence of protective measures against these potential causes.
service	Assignment; every activity implemented or to be implemented by the Contractor, on the basis of the agreement.
service provision	Supplying a service or package of service to the Client.
specification	A document with the collection of arranged requirements and a description of the solution space available or chosen, applying to a system (product or service).
subcontractor	A contractor performing work activities for purposes of the realisation of the Performance by the Contractor.
sustainability	The extent to which the object occupies scarce resources, presently as well as in the future (e.g. water, raw materials, energy, space, etc.).
system	A collection of coordinated individual components, each of which has a function in achieving a joint objective.
tasks	The concrete work activities performed by Contractor in the light of his responsibility, to realise the Performance.



technical installation	Electrotechnical, mechanical engineering installation and equipment, including the accompanying industrial automation, which the functions of an object can be utilised, either automatically, or by human action.
temporary recovery	Short-term recovery of the function of a management object after a calamity or incident, to such an extent that the specific management object still functions, though not in accordance with the specifications.
testing	Demonstrating that the system, subsystem, component or element realised complies with the relevant design. Testing is a method for verification. Note: Testing is a process of the Contractor, but could also be performed additionally by the Client.
third parties	External persons or organisations, usually suppliers of the Client, who provide services that cannot be/are not performed by the Client's own staff.
top risk	Risk which directly or indirectly undermines the realisation of the objectives of the Client, by the Contractor.
use phase	The period during which the system to be newly realised is being used, starting from the date of delivery.
validation	Confirmation that specified requirements were met, by providing objective evidence. Note: Validation is a process of the Contractor.
vehicle detector	Component that processes the signals of detectors (loops) and passes them on to the control unit. The Vehicle detector is included in annex B.
verification	Investigate whether the specified requirements were met, via a process known beforehand, or via a method known beforehand. Note: Verification is a process of the Contractor.
verifying	Establishing the conformity between setup, existence and functioning, by means of comparing observations with the performance documented in the Agreement. Note: verifying is a process of the Client.
verifying	All activities required to be able to demonstrate objectively and explicitly that the Performance or Services meet the requirements in the Agreement during and after realisation.
vermin	An animal with properties that RWS regards as harmful, troublesome or undesired
work of art	Architectural construction, managed at RWS or DBFM parties, that can be subdivided into 6 categories: bridge, tunnel, wet work of art (such as a barrier and lock), movable bridge, noise barrier and traffic bearing construction.
Winter Controle	The current user application for GMS

1. Abbreviations

In the Requirement specification below mentioned abbreviations are used.

Abbreviation	Meaning	Note
ACM	Authority for Consumers and Markets	ACM ensures fair competition between businesses, and protects consumer interests.
API	Application Programming Interface	Interface ensuring that software is able to communicate with standard software packages.
AVG	General Data Protection Regulation (Algemene Verordening Gegevensbescherming)	
B&O	Management and maintenance	
BIBOB	Promotion of integrity assessments by public administration	
BIM	Building Information Modelling	A digital representation of all physical and functional features of a building or space.
BIO	Baseline Information security of the Dutch Government	Prescriptive basis level for information security at the Central Government



BIV	Image Information Provider	A BIV is a unit that information is provided with regarding the current images shown on a signal frame. A local system that operates in the same area as the road side system can thus exchange information about the images desired by the local system and shown by the road side system.
BMS	Control Management System	
BOSS	Decision Supporting System	
BPO	Involved Project Organisation	
BYB	Exceptional Sign	
CAB	Change Advisory Board	Consultation during which decisions are taken regarding incoming change request and improvement points for the iWKS.
CBO	Central Control Objects	
CCM	CCTV Manager	Switching Video walls and PTZ
CCTV	Closed Circuit Television (Camera's)	
CD	Corporate Dienst	Department of RWS
CDMS	Central DRIP Management System	
CI	Configuration Item	Part of a configuration that contains the functional and physical features of a product.
CIV	Central Information Provision	The ICT service of Rijkswaterstaat
CMDB	Configuration Management DataBase	A data collection in which ICT installations (Configuration Items) and their mutual relations are registered and kept. A CMDB gives insight in the (critical) components that are part of a Service.
COTS	Commercial off-the-shelf	
CMS	Central Management System	
CS	Central System	
Cvi	Code for Information security	
CVR	Central VICnet Space	Small concrete building alongside A-roads, for the benefit of the RWS IT-network, of from which the network equipment in the road side stations is controlled.
DBFM	Design, Build, Finance and Maintain	Integrated contract form, where Contractor is responsible for the design and the construction of the project, as well as for the financing and the entire maintenance.
DCiE	Data Centre Infrastructure Efficiency	DCiE is a number that is used to calculate the energy efficiency of a data centre. DCiE is determined as the energy consumption of the IT equipment in the data centre divided by the total energy consumption of the data centre.
DD	Descriptive Document	Main document, contains information about this European public procurement
DIP	Data Interaction Processor	
DOA	Dead On Arrival	New hardware components that do not function in accordance with specification.
DRS	Demands Requirements Specification	
DTB	Digital Topographic files	
DVM	Dynamic traffic Management	
DVR	Digital Video Recorder	
EM	Electro-mechanic	
EMC	Electro-Magnetic Compatibility	
EOD	Electronic Transfer Dossier	
EPK	External Product Costs	
ESD	Electro-Static Discharge	Electro-static discharge with a limited energy-content that a person could cause by touching a conductive object, such as a circuit board.
EUE	Energy Usage Effectiveness	
FAT	Factory Acceptance Test	Acceptance test in the plant
FB	Functional Management (Functioneel Beheer)	
FME(C)A	Failure mode and effect (criticality)	



	analysis	
GMS	Gladheid meldsysteem	Current iciness alert system
GPO	Grand Projects and Maintenance	Service by RWS that installs and maintains waterways or roads from 50 million Euros, including VAT.
GWV	Civil Engineering	Business sector that usually serves as a contractor of GPO-PPO.
HID	Head-Engineer Director	
HWN	Main Road Network	
IA	Industrial Automation	The ICS/SCADA systems and the ICT related systems and components (hardware and software), where functional interaction takes place with the physical environment or users (e.g. a bridge, substation, DRIP, etc.). This also covers the obtaining of information about the physical surroundings (gathering) and the influencing of the physical surroundings (operation and control).
ICT	Information - and Communication - technology	Coherent entirety of information systems, hardware and software, operating systems of servers, the underlying technical data network infrastructure with data networks and related data network components, data storage in computer centre, computer and technical spaces, with the aim to make it possible or as a support of the processes.
IFAT	Integrated Factory Acceptance Test	Functional acceptance test in the plant
IoT (sensor)	Internet of Things sensor	Optionally sensor that is placed in the road surface
IRN	Information Facility RWS Networks	Department of RWS-CIV
ISAT	Integrated Site Acceptance Test	Functional acceptance test on location
IV	Information provision	
KMS	Quality management system	
KNMI	Royal Netherlands Meteorological Institute	
LBO	Local Control of Objects	
LCM	Life Cycle Management	
LED	Light Emitting Diode	
MMI	Human - Machine Interface	
MINIBOSS	Mini decision supporting system	
MKO	Mission Critical Support	
MTBF	Mean Time Between Failures	
MTBM	Mean Time Between Maintenance	
MTTM	Mean time To Maintain	
MTTR	Mean Time to Repair	
NNV	New Network Provisions V&W	
OCD	Operational concept description	
ODW	Maintenance DVM-chain Road side	
OG	Client	
OMS	Maintenance Management System	
ON	Contractor	
OT-ID	Object Tree ID	
OWN	Secondary Road Network (Onderliggend Wegen Net)	
PM	Process Manager	System to be able to switch objects to consoles
PMP	Project management plan	The plan that guarantees the quality of the implementation of the Agreement by means of process descriptions and that the Contractor will present to the Client for testing during the Transition.
PPO	Programmes, Projects and Maintenance	RWS service that installs and maintains waterways/roads up to 50 million Euros, including VAT).
PPP	Point to Point Protocol	



PRI01	Rescue Services high urgency	
PRP	Progress Report	
PRS	Process Requirements Specification	
PTZ	Pan Tilt Zoom	
PvE	Programme of Requirements	
RAMS	Reliability Availability Maintainability Safety	Reliability Availability Maintainability Safety
RBS	Requirements Breakdown Structure	Hierarchic requirements structure of the system, also known as 'requirements tree'.
RCA	Root Cause Analysis	
RD	Regional Service	
RITS	Realisation Intelligent Transport Systems Agency	
RWIS	Road Weather Information System	Will replace the current GMS
RWS	Rijkswaterstaat	
RWS-CD	Rijkswaterstaat Corporate Service	Organisation within RWS, responsible for the facilitatory services in offices and objects.
RWS-CIV	Rijkswaterstaat Central Information provision	Organisation within RWS, responsible for the information provision and data in offices and objects.
RWS-CIV-IRN	Rijkswaterstaat Central Information provision IV RWS-Networks	Organisation within RWS, responsible for the IT-infrastructure in offices and objects.
RWS-CIVVV	Rijkswaterstaat Central Information provision Verification & Validation	Organisation within RWS, responsible for the testing of RWS IT-infrastructure.
RWS-GPO	Rijkswaterstaat Grote Projects and Maintenance	Organisation within RWS, responsible for all large project-based new installation and renovation of infrastructure in the main networks of RWS.
RWS-PPO	Rijkswaterstaat Programmes, Projects and Maintenance	Organisation within RWS, responsible for all maintenance and renovation of infrastructure in the main networks of RWS.
RWS-Regio	Regional organisation of Rijkswaterstaat	
RWS-SVM	Rijkswaterstaat Shipping traffic Management	Process within RWS, that sees to the management and the use of the waterways by means of, for instance, bridges and locks.
RWS-VM	Rijkswaterstaat Traffic management	Process within RWS, that arranges the management and the use of the motorways by means of, for instance, bridges, tunnels and viaducts.
RWS-WM	Rijkswaterstaat Water management	Process within RWS, that arranges the management and the use of the coastline by means of, for instance, barriers and buoys.
SAT	Site Acceptance Test	Acceptance test on location
SCB	System-oriented contract control	All activities by the Client aiming to ensure that the obligations from the Agreement are complied with and that the risks for the Client are demonstrably controlled. Risk management forms the basis for system-oriented contract control to mitigate the risks with adverse consequences for the joint specification.
SNO (VGB)	Statement of No Objection (Verklaring Geen Bezwaar)	
SRS	Software Requirements Specification	Specification software-requirements
SSDD	System/Subsystem Design Description	System/Subsystem Design Description
SSS	System/Subsystem Specification	Specification system/subsystem
SU	Start Up	
TDI	Entrance Dosing installation	
TORO	Test and reference environment of Rijkswaterstaat	
TREFI	TIC Travel times and File Information	



UAV-GC	Uniform administrative conditions for integrated contracts	
V&G	Safety & Health	
V&V	Verification and validation	
VMS	Traffic Management Services	Department of RWS-CIV (Verkeer Management Services)
VWM	Traffic and Water Management	Department of RWS (Verkeer- en Watermanagement RWS)
WVL	Road traffic leader	