- Reg elma13igel Aalysisiii dler vers11twortet services for vulnerabilities (Scanning, M ail'inglist en etc.)
- Evaluation of the weak points
- Prioritization of the elimination of weak points in consultation with the AG.
- Elimination of the vulnerabilities
- Te st ing u11d Deployment of the changed versions
- Document ation of the remedy
- Penetration tests
  - Preparation and support (e.g. assessment scope documents)
  - Provision of e.g. PostMan Collections, SOAPUI Configurations
  - Test data preparation (test vehicles with data fing)
  - Processing of Risk Assessment Committee (RAC) in the case of executions
  - Note: Execution of the tests by AG

#### 2.3.3.18 Certification and license management

The goal of the certificate and license management process is to achieve a regulated and centralized supply of certificates and licenses, and to

- to opt in to the license and certificate models used, and
- efficient use of available licenses and certificates.

to, 1,..... -tell.

To this end, licenses and certif icates that are too many, too few or invalid shall be will so that more licenses or certif icates can be obtained or the number of licenses or certificates can be reduced.

The certification and license management process is closely related tand interdependent with their processes e.g. configuration management (documentation) and change management (requesting new changes, etc.).

The Contractor is responsible for a uniform certification and license management for the defined

2. 1. . 51-The management is responsible for the environment and must at all times be able to give an account of the

This applies to both the management of server and server licenses.

Zertifikat e (SSL, WAF etc.) as well as Clierit Zertifikat e (TAM, T D R

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etc.}. The main tasks of the Contractor include6111:

- Capture and document ation of certificate and licence data in the tool provided by the client.
- T ool-supported, cont inuous review 11Jng (Monitor ing) of certificates and Licenses
- Carrying out forward-looking capacity planning and adjusting the technical components used as required, taking into account the need to ensure system stability.
- Notification of the expiry of certificates and to third parties by the deadline.
- Initiate procurement process for issuance of new11Jen certificates and licenses 11 according to aE definitions of the AG at the AG or third party.
- Sto rfree execution o f cert if icat ion and licenc e cont rol
- Supervision and proactive communication for certification and validation with third parties
- Regular report ing of all certificat ions and licenses t o t he AG

#### 2.3.4 Integrated projek

In ,.Int eg rated proj ects", a11fo rd erung11 is considered and a 6solution for this is defi ned. Int egrated proj ects are characterized by the fact that they are not covered by the other processes and, in some circumstances, require support from other processes. experts are necessary. The CO wknowledge and skills10,, from the day-to-day business into the respective integrated project, the transfer of knowledge between the basic and project team is the responsibility off the CO.

The following advantages are offered by carrying out the activities as integrated projects:

- Involvement of other specialists;;i personnel
- Demarcation of resources between day-to-day business and integrated projects (separation of basic team<sup>1</sup> and project e-tearn)
- Control of the project and participants according to the guidelines of the AG.
- Utilization of svn ergies (knowledge, competencies, zen, technic organization)

The Contractor shall provide all services associated **with** the process. He shall Coordinati.mg wi th A.G uber die li atigkeit en info rmieren und seine Prozess ress ourcen abzust immen .

The Client reserves the right to request the scope of integrated projects directly from third parties. beautrag,en,

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The rectm ent of the int egratedi projects is only nscli acceptance and release by the AG. In the case of comprehensive projects, defined partial agreements are possible,

The Contractor shall establish an appropriate project management for the implementation of integrated projects. The project management shall ensure that schedules, costs, and Qual it at ions (specificat ions. functions) of the projects are provided in accordance with the order and, in case of imminent ober 2 or undercut ting, a rectual esk: alation is made.

The clarification of the task required in the first step is just as much a part of the process as the development of concepts, the detailed planning and all further phases within the framework of a project.

Project management requires the provision of project managers with the necessary qualifications and experience.

The project manager is responsible for managing the so-called integrated projects. The project manager is responsible for all employees and roles in the projects.

The main tasks of the project management for the contractor are:

- Milliproject m anagem ent for int egrat ed projec t s
- Coordinat ion of project tr essources
- Ini iation of special projec:t s
- Establishment and coordination of the project teams
- ProjecT q ualit at sysTems
- Monitoring of quality, time and costs in the project
- Reconciliation and handover of the project results to the AG
- Strat egic continuation of project processes
- Further according to definition in the Fade-IN phase

#### 2.L1 S eirvice org anisat1 i on

The Contractor's service organization must be fundamentally suitable for providing all of the The Contractor shall be able to adequately organize', perform, control and optimize the activities defined in the specifications. The Contractor must have suitable prerequisites 1.m d qualified employees to perform the activities defined in this invitation to tender and contract specifications.

The employer must ensure that the employees it employs have the required professional experience and skills. He must ensure that the employees he employs have the required professional experience and that he has the necessary skills and abilities. All employees must be adequately instructed.

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It is assumed that the Contractor's employees have mastered the tools 1.md procedures used by the Customer. The Contractor undertakes to train its employees at its own expense.

Furthermore, the Contractor undertakes to train its employees on an ongoing basis.

#### 2.L1."1 Personail

The Contractor may, without exception, employ such personnel which is demonstrably qualified to perform the owed sevices by the Contractor.

organized, instructed and supervised. The Contractor shall likewise ensure that, without exception, demonstrably suitable personnel are deployed. The Contractor may only use personnel who can prove that they have all the necessary qualifications for the job.

The person isnotauthorized, empowered, professionally licensed or permitted to do so.

The Contractor shall be responsible for the integrity, availability and confidentiality of the information entrusted to it.

The employees employed by the Contractor are exclusively 31 subject to the Contractor's to the Contractor's right to issue instructions. However, there are exceptions when it comes to complying with the safety regulations and averting danger to life and limb.

The qualification 1.m d number of personnel shall be such that continuous performance can be ensured, taking into account operational and legal requirements.

The Contractor shall, at its own expense and in accordance with the statutory regulations, subject the Contractor's employees to athorough examination or has already done so when hiring them. The additional, superviously legal, expe

The Contractor shall determine any scope exceeding the scope of the regulations.

For each of the Contractor's employees deployed within the scope of the service provision, a valid right of access to the Client's premises as well as a valid entry permit for the Contractor's employees must be provided.

The company is under an obligation to maintain secrecy,

#### 2A.2 Dealing with personal

The Contractor and the Client are each individually responsible for the management, control, supervision and scheduling of their own employees within the scope of this contract.

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The services shall be provided in accordance with the technical and organizational specifications of the Client, under the supervision and sole authority of the responsible employees named by the Contractor, as the Contractor's **own** independent and responsible service.

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The employer must be notified of any change of personnel at the employee. This information is required so that the corresponding authorizations can be set up or deleted in User Management. The Contractor shall be responsible for setting up new users or deletions. The Contractor shall ensure that a change of personnel does not result in any change of personnel.

The new employees must be familiarized with their tasks on a basic level. New employees must be familiarized with their tasks.

The employees with the on-call duty of the Contractor are able '1to work as a team at any time, The services required by this performance specification at to be carried out.

The Contractor shall ensure that sufficient personnel is available to provide the service content within the defined service level (Annex I). The Contractor shall organize its personnel accordingly and shall take into account the working hours and vacation times of its employees.

#### 2..4.3 Systemlk ife1

The Contractor shall ensure that qualified service personnel are available for the official contents of the specifications. The Contractor shall be obliged to provide the necessary personnel, either remotely or on site.

It shall be ensured that, with the Contractor's pool of personnel, it is able to support all products and systems within the scope of this specification, according to 3. Ser vice Leve I. In addition, there is a need to ensure that knowledge and experience for the use of the The data of the systems used at the AG as well as of the measurement and analysis tools available are available.

The plant opography and 2 documentation as well as the operating manuals and other documents required for processing the fault are entrusted to the Contractor's employees.

The employees of the Contractor who are already assigned to the team are, as a team, always in a position to select and follow up on an esca lation in a qualified manner for all products and applications used by the Client.

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The Contractor shall ensure that it is available for each service in order to be able to provide the service contents defined in the specifications in the required time.

In addition to the corresponding process responsibilities, the Client expects that employees who are assigned to a task, e.g. a project, a deployment, a change or other procedures, will supervise this task from start to finish. The Contractor shall organize its peirson all organization accordingly and with a contractor shall organize its peirson all organization accordingly and also take into account the working hours bl1.'v. the vacation times of 'its employees.

If, in exceptional cases, there is a change of person in these tasks, the Contractor must ensure a **smooth** transfer of knowledge. In addition, the Employer must be informed in good time and communication with the departments involved must continue to be **ensured**. Under no circumstances may procedures be changed between persons without informing the AG.

#### 2..4.4 Err eichb, ar1kei'

#### 2.4.4.1 Collective number

The Contractor shall set up a central telephone number which can be reached free of charge by the Client (collective call number. nBere it sch aft snumm er") for the communication of the .A.G with the Contractor (personnel of the Contractor who are entrusted with the scope of services) around the clock. The CO

It is expected that appropriately qualified personnel can be reached at any time under this call number for personal communication.

#### 2.4.4.2 E-mail mail f ach

The Contractor shall provide a central **e-mail** mailbox for the communication of topics relevant to the contract, e.g. with regard to the provision of services. This e-mail mailbox is not used for communication or for the flow of information on services (within processes, etc.).

#### 2.4.4.3 CJM Phone

The Contractor shall set up a telephone number, which can be reached free of charge by the Client, for the Client's communication with the Contractor's Criticalnoident Manager. The Critical Inc ident Manager must always be reachable via this special univ ersity telephone number. 247 (this telephone number may only be used for this purpose).

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#### 2..4.5 Service and support structure

The service and support struc ture in the Connected Car Service environment includes the 1st 2L e vel Sup port, the C ar-IT1 Service Desk and the Dev0 ps2 e arn. The following The illustration shows this mathematically.

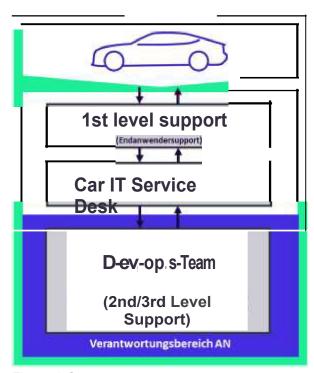


Figure 9 Sup patst ruct ure

The 1st level support is in direct contact with the e111d customer and ensures enda111we nd ersupport.

For the Connected Car Service, the CAR-IT Service Desk combines not only the role of the 1.5 leve I Supp of, which connected Car service inquiries or storing messages. It also forms a central communication' point for all A.G customers and users within the Connected Car Service (single point of contact).

If the problem or request cannot be solved directly at the CAR-IT Service Desk, it is forwarded to various groups in the 2nd and 3rd level departments for further processing.

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Within the scope of this service description, the Contractor shall be responsible for appli cation operation and software maintenance. In the end-to-end support chain, this corresponds to 2nd level d\footnote{\text{lifS-W 3rd}} level support. It thus covers the ",.Ops"2 scope of a DevOps team, consisting of app lication support and vartu2 ng.

The main objective of the service and support structure is to ensure stable 1.md

The aim is to achieve a st orun g-free support of the business processes in the applications. This ensures that the application can be restored quickly in the event of an error and that incidents and service requests are handled in a competent and customer-oriented manner. The provision of the ops2 services soil to a high level of user - Filliss -customer satisfaction.

#### 2.4.6 Roll-enb est reitamg

In t he furt her, all roles t hat t he CO has t o designate 'in t his service organization are further det ailed. An'ill ex:act finalization of t he roles takes place in the Fade -IN phase. Here, the contents listed below form the basis of the coordination. The aspects named there are to be implemented in the Fade-IN phase at least 1Jnd dmch concerns that are brought in by the Contractor or the Client are to be supplemented.

#### 2.4.6.1 Account Manager

Veirantwortung	The Aco oun t M anage r is t he hoc hst Managem ent ins tance in 18 relation t o t he perform ance disses load book s and t o tax t he contract content s. He is. t he The1 account manager must be the administrative manager of the service manager and the service organization or be granted these rights within the framework of this contract control. He is responsible aunse rd em d the kau fm anniSiCh en Bernich.	
Tasks	<ul> <li>De-escalatio11 of disruptions in service {provision of service }</li> <li>A n sprec h p,art ner for ROck questions of the Manageme nt s</li> <li>Provision of resourc e n of serv ice orga11is at ion</li> <li>Reports on de-escalations in the Storfa II to the AG</li> <li>Further riach Definiti on in the BCJe-IN Pt1t,iSe</li> </ul>	
IName	The Acco un t Manager shall be name11tHch.	
St ellvert rater	For the Acco unt Manager, a Ste Ilvertreter is to bene11ne n .	

T belle £1Account Msnager

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#### 2.4.6.2 Service Manager

	The Vice Manager is responsible for the control and management of all
Responsibility	aspects of the service and is responsible for the overall service
	management in the company.

Reference to the Unifor med Servioe Leve I,

	-	Single Point of Contact für alle service- und vertragsrelevanten Themen
		Übernimmt wenn erforderlich die Kommunikation mit Dritten oo
		verantwortlich für die Koordination des gesamten Serviceteams des
		ANs.
		ist verantwortlich für eine kontinuierliche Verbesserung des Service, oo
		ist verantwortlich für die Einbindung und Steuerung der erforderlichen Ressourcen im Service (Disponierung des Personals),
		koordiniert ggf. Subunternehmen,
		erstellt Reports und Dokumentationen und o
Danie and de Danie and defen		ist bei geplanten Meetings vor Ort. Weisungsbefugter für die darunterliegende Organisation
Ressourcen der Serviceorganisation		Gesamtverantwortung für alle Prozesse
	_	Verantwortlich für die strategische Weiterentwicklung der Basisprozesse
		Erste Eskalationsinstanz im Management mit Entscheidungs- und
	_	Weisungsbefugnis bei Störungen
		Direkter Zugang zum Top-Management des ANs, um schnelle Reaktionen auf
		akute Maßnahmen ermöglichen zu können
		Überwachen und steuern der Service Level Leistungen:
		Initilerung eines Service Level Managements oo
		Überwachung und Aufarbeitung der Service Level Reports o
		Aktivieren von Maßnahmen zur Verbesserung der Service Level
	• -0	Abstimmung der Service Level-Aktivitäten mit dem Service Manager
		-
	_	und AG
	_	Service Level Berichte an den AG
		Verantwortlich für das Lizenz-, Zertifikats- und Wartungsmanagement
		Schnittstelle zwischen Lizenz-, Zertifikats- und Wartungsmanagement und
	_	Finance Management bei notwendigen Nachbeschaffungen
	_	Überwachung und Steuerung aller Entwicklungs- und Testing-Aktivitäten und
		Betriebsaktivitäten sowie der dazugehörigen Servicequalität
		Koordination zwischen den einzelnen DevOps-Teams, Sicherstellung des Informationsflusses
		kontinuierliche Verbesserung der Betriebsprozesse
		Koordination der Schnittstelle zwischen Betriebsaktivitäten und Projekten
		Steuerung der Übernahme von Projektergebnissen in den Betrieb
		Weitere nach Definition in der Fade IN Phase
Name		ice Manager ist namentlich zu benennen.
Account Manager		Service Manager ist ein Stellvertreter zu benennen.

Tabelle 5 Service Manager

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2.4.6.3 Quality Manage

Verantwortung	Der Quality Manager verantwortet einen hohen Qualitätsstandard der Services  ANs. Er ist verantwortlich für die Sicherstellung und Optimierung der jeweiligen  Prozesse. Ebenso ist er für das Wissensmanagement, den Wissenstransfer und  Gesamtdokumentation des Service, der Serviceprozesse und der Servicesysten  verantwortlich.  Der Quality Manager fungiert als Schnittstelle zwischen dem AN und dem Test  Framework Manager des AGs und ist sich aller Änderungen im Test Framework  bewusst.		
Pleseoucen der Seniceorganisation	Erster AP für Qualitätsthemen für den AG Qualitätssicherung (übergreifend für alle Bereiche) Überwachung der Dokumentationsqualität (CI, Wissen etc.) Überwachung der Kommunikations- und Informationsqualität Aufzeigen von Qualitätsabweichungen Ableiten von Maßnahmen, einleiten und deren Umsetzung überwachen Unterstützung des AGs bei Auditierungen/ Zertifizierungen (intern/extern) Enge Zusammenarbeit mit dem Service Manager Dokumentation aller CIs (technisch) Dokumentation aller Prozesse Dokumentation des gesamten Wissens, welches für die Vertragserbringung sowohl strategisch als auch operativ notwendig ist Sicherstellung der Dokumentationsgrundlage. Überwachung und Überprüfung Single Point of Contact für den AG für alle Test Framework-Themen Vollumfängliche Unterstützung des AGs für alle Test Framework-Themen Weitere nach Definition in der Fade N Phase		
Name	Der Quality Manager ist namentlich zu benennen.		
Account Manager	Für den Quality Manager ist ein Stellvertreter zu benennen.		
Falsalla C. Our	Ph. Managar		

# Tabelle 6 Quality Manager

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# 2.4.6.4 Prozess Manager

Die Prozess Manager sind verantwortlich für die Sicherstellung und Optimierung der jeweiligen Prozesse.

Ressourcen der Seniceorganisation	Initiierung der Prozesse in der Fade N Phase Überwachung der Prozesse Feststellen von Veränderungspotenzial in den Prozessen über die vereinbarten KPIs Erarbeiten von Optimierungsvorschlägen für die Verbesserung von Prozessen Kontinuierliche Prozessverbesserung Schulung, Einweisung und Weiterbildung des Personals bei veränderten oder optimierten Prozessen
Name	Die Prozess Manager sind je Prozess namentlich zu benennen, sie können für mehrere Prozesse gleichzeitig oder in Kombination mit anderen Rollen tätig werden
Account Manager	Ein Stellvertreter des Prozess Managers ist namentlich zu benennen.

Tabelle 7 Prozess Manager

# 2.4.6.5 Projekt Manager (Integrierte Projekte)

Verantwortung	Der Projekt Manager ist für die ganzheitliche Steuerung des Projektes verantwortlich und stellt sicher, dass Projekte in time, in quality und in budget durchgeführt werden.		
Ressoucen der Seniceorganisation	Planung, Initiierung, Durchführung und Steuerung von Projekten Multiprojekt Management für alle ihm zugewiesenen Projekte Aufbau, Einteilung und Überwachung der Projektressourcen Durchführung von Projekt Reviews Projektstatus berichten Sorgt für eine ausreichende Kommunikation innerhalb des Projektteams Sicherstellung der Einhaltung von Qualitätskriterien		
Name	Die Projekt Manager ist je integriertes Projekt namentlich zu benennen, er kann für mehrere Projekte gleichzeitig oder in Kombination mit anderen Rollen tätig werden.		
Account Manager	Ein Stellvertreter des Projekt Managers ist namentlich zu benennen.		

# Tabelle 8 Projekt Manager (Integrierte Projekte)

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# 2.4.6.6 Critical Incident Manager (CIM)

Verantwortung	Der CIM stellt sicher, dass im Falle von kritischen Störungen an den vom AN verantworteten Systemen und Applikationen eine Bearbeitung innerhalb der Organisation des ANs erfolgt und der AG über den Fortschritt der Bearbeitung informiert wird. Hierzu zählen dringende Service Requests oder Störungen des Service an sich (alle Prozesse). Der CIM wird bei schwerwiegenden Störungen (z. B. Prio 1 und 2) als Ansprechpartner des AGs oder Support- bzw. Eskalationseinheiten des AGs eingebunden, wenn diese an der Störungskoordination beteiligt sind. Er übernimmt die Kommunikation mit dem AG im Falle von kritischen Störungen.		
Ressourcer der Seniceorganisation	Koordination von Störungsbearbeitungen beim AN Moderation in Meetings eines Major Incident-Falls, sofern notwendig Durchgängige Dokumentation während des Major Incidents im vorgegebenen Whiteboard des AGs Erstanalyse von Störungen, um die Ursache schnell und zielgerecht verorten zu können Identifizieren des zuständigen DevOps Teams und Einbindung dessen zur schnellen Lösungsfindung bei kritischen Incidents Erstellung und Überprüfen von Dokumenten nach der Lösung einer kritischen Störung sowie Teilnahme an den Prio1/2 Meetings um schnelle, zielführende und nachhaltige Ursachen-/Lösungsforschung zu gewährleisten Zentraler Ansprechpartner des AGs oder Support- bzw. Eskalationseinheiten des AGs Verantwortlichkeit für das verständliche und kontinuierliche Reporting von getroffenen Maßnahmen (im Zusammenhang mit einem kritischen Incident) Proaktive und kontinuierliche Information zur Bearbeitung/Lösung von Störungen zum AG Besetzung der Rolle 24*7 Stunden Teilnahme an Meetings mit dem AG oder/und vom AG beauftragten Dritten die im Rahmen von Störungen einberufen werden Initiierung eines Review Meetings, nachdem die Störung behoben wurde Erreichbarkeit immer über eine spezielle einheitliche Telefonnummer (diese Telefonnummer darf nur für diesen Zweck bereitgestellt werden,		
Name	vgl. Kapitel CIM Phone)  Der CIM ist nicht namentlich zu benennen. Die Rolle kann von verschiedenen  Personen eingenommen werden, wenn sie den Service beim AG kennen und die administrativen Möglichkeiten in der Organisation des ANs haben, um die Aufgaben wahrnehmen zu können.		
Account Manager	Siehe Regelung bei "Name".		

Tabelle 9 Critical Incident Manager (CIM)

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2.4.6.7 Site Realiability Engineer (SRE)

Vernntwortung	:: has a ube-rgrn i1fe n de ro  Ile within the scope of application e nt w orlding around
vermitwortding	ne of t he operat ion of t his. The re sponsi on is not beso rt on applications, but goes Ober Bao 'kend - nd - to -1::.nd Use Cases.
Tasks	DescriPtion/ developm ent of vo11 u b ergreifende FeatL1res to the Scaling, upgrading and stabilization of the platform Review and feedback on architecture, application development and Operational concepts Support for the definition of NFRs Kont inuierlidhes Moni toring deir Environmen ts with regard to NFRs, I teider1t- Vermeiturgetc. au f Use Case-H t:i! Sis  Arohitecture and system ana lysis in the context of Inc ident's In-depth analysis of Incident's and Ille rmittles of the Root Cause as a On top to bishe ri-ger responsibility  Elimination of the faults in the uve systems, taking into account all the effects (incl. conversion systems). Reconciliation, /to what extent the error was not found in the test Analysis of the operating and corfusionparametes and their impact on the application/system performance in dependence on the entire impact chain. Analysis of app likat ion metrics in common monitor ing tools or on  Systemsebe ne (e.g., in cubem etes -level or quel lcode-based) and derivat ion Ivan root ca. ses. Conduct code exel/INS and derive ma'3n ahme 11 Conduct architecture and conf iguration review

Alie Rschte vonbeh alten. Disclosure or transfer without the prior consent of the d@r			
Volk swag@n Akti enges@llsc haft veJbol @n. Vern agspartnsr @haltmdleses Dakum@nt g ndsatzlioh Ober die zust1:indlge Procuration sabc.			

CAR D SE Volkswage  ${\bf n}$  Group Company

Evaluation of the found and defined problems / root causes with regard to the impact on the operability Definitio n o f m easurem ent s fo r t h e a c c c o m p l e m e n t o f incide nts Evaluatio n 1.mg o f the found and defined m easures in terms o f efficacy and prio nit.atio n o f availabilit y Independent planning and control/implementation of service "go to green" plans with identified optimization opportunities entl ang of the entire effect:ett e Aufn ahme cler Verbessen.m gs- uncl extension potency ieile 8lfl result of root-cause or white-spot analyses. DocumentatJion Experience with A:G's g-eset n Monitm ingtools and dleren customization, beoonclers: Kiban.a, NewRelic. Dyn.at r a ce, CA APM Indust ry ripen ing e xperience wit h monitoring and operat ing concept s Cloud architecture and infrastructure knowledge flen Skills SHt:-Skills/ Mindset proficient with common cloud software such as Kubemetes, Java Applikatlionen, Deploymentpipe lines in Produc:tivum g ebungen

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	- Fähigkeit eigenständige Anpassungen / Anpassungsvorschläge für den Applikationscode zu machen im Rahmen von Incident und Problem Analyse
	Fähigkeit Logfiles zu analysieren und Applikationsperformance im Systemkontext zu beurteilen
	- SAFe und ITIL Know-how
	<ul> <li>Expertise mit SOAP- und REST-Schnittstellen</li> <li>Erfahrung mit JIRA und Confluence</li> </ul>
Name	Der SRE ist nicht namentlich zu benennen und mehrfach besetzt. Die Anzahl der eingesetzten SREs liegt im Ermessen des ANs, muss jedoch stets geeignet sein, um alle geforderten Leistungen im definierten Umfang und in der festgelegten Qualität (Service Level) zu erbringen.
Stellvertreter	Für den SRE ist ein Stellvertreter zu benennen.

Tabelle 10 Site Realiability Engineer

#### 2.4.6.8 DevOps-Team

Das DevOps-Team des ANs besteht aus dem Proxy Product Owner sowie den Mitgliedern des DevOps2Teams, welche in den nachfolgenden Kapiteln näher beschrieben werden.

Die Anzahl der eingesetzten Teams und deren Größe liegt im Ermessen des ANs, muss jedoch stets geeignet sein, um alle geforderten Leistungen im definierten Umfang und in der festgelegten Qualität (Service Level) zu erbringen.

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#### 2.4.6.8.1 Proxy Product Owner

	Der Proxy Product Owner fungiert als Schnittstelle zwischen dem AG und dem
Verentwertung	DevOps-Team des ANs. Der AN garantiert, dass der Proxy Product Owner die
Verantwortung	technischen, fachlichen und organisatorischen Fertigkeiten und Fähigkeiten
	zur Wahrnehmung seiner Aufgaben hat.

JI:111 *	<ul> <li>Sin gle fJoin t of Con t act for the AG for all specialist II heme11b areas is responsi ble for thecoordinat ion of this entire11 DevOps ea1rs1</li> <li>of the CO {authorized to issue instructions}.</li> <li>The Manager thus controls, manages and is responsible for all ongoing DevOp.s activities at the Contractor,</li> <li>is responsible for the acceptance and processing of requests. Requests, coordiffier t subuntem e if necessary,</li> <li>is on site at p lant meet ings.</li> <li>Full scope of the AG's under stutz w1g emo and reVliew meetings preparation, mor iering, post11 User Stories and acceptantial tire i es 0 verview and iireing.</li> <li>(tu11cti onal breathing)</li> <li>Ensuring the provision of care and, in coordination with the AG, the Prioritization of the product backlog, product backlog items for improvement and reporting</li> <li>creates reports and documentationenud11</li> <li>Continuous monitoring of development progress</li> <li>It is important that the developers understand the elements of this product backlog at the required level {for this purpose, the proxy provides the necessary information}.</li> <li>Product Owner between the A:G and the Development)</li> </ul>
Skills	- Experience in the 8ere I of software developlurig  - High M aB. of own iniUative  - St ruct urized approach  - Ausp ragt e communicat ion as well as meth ode n c ompet en ce  - Technical understanding  - 8usin ess anailyse s k i I I s  - St rategic decisiveness  Leadership qu amate11  Stakeholder fvla11ageme nt  Losu ngso irien t i er thinking  Sprac hanfo rde rung gemal 50EFR: Eng lish Ci, Deut sch  desirable
IName	The Proxy Prod uc t Owliler is to be name nt ly, The Prnxy PO must be beanfiffed each DevOp.s team. The roles can be filled in persona, I t ni on however, the CO must ensure. that the ful1ctio11al requirements can be met without restriction.
Account Manager	A deputy must be appointed for the Prnxy P'ro dlu ct Owner.

#### Ta be lle 11 Proxy Product Owner

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#### 2.<::1.6.8.2 M it g lied of the DevOps Team s

Alie Rschte vonbeh alten. Disclosure or transfer without the prior consent of the department of the Volk swag@n Akti enges@llsc haft v@fbol @n. Vernagspartner @rhalltmdI it Dakum@nt g ndsatzlioh Ober die zust1:ind ge Beschaff abtellng.

#### Zu den Aufgaben der Mitglieder des DevOps-Teams gehören u. a.:

Entwicklung und Optimierung von Software-Inkrementen

Erhebung/Ermittlung von Anforderungen an neue Software

Erkennung von Prioritäten und Konflikten innerhalb der Anforderungen

Spezifizierung und Ausarbeitung von User Stories

Durchführung von Aufwandsschätzungen (Entwicklung und Testaufwände)

Pflege von User Stories

Umsetzung von User Stories im Rahmen von Sprints, unter Einhaltung der

Programmierrichtlinien und Qualitätskriterien sowie weiterer geltender

Standards/ Richtlinien zur Softwareentwicklung des AGs

Erbringung der vereinbarten Arbeitsergebnisse, Lieferung des definierten

Produkts, Commitment für Termin und Qualität, unter Einhaltung der Quality

Gates z. B. bei der Erfüllung der Definition of Readiness einer User Story

Identifikation von Schwachstellen und Sicherheitsrisiken sowie Ableitung und

Umsetzung von notwendigen Maßnahmen Erstellung Skripte und Tools für die agile Entwicklung

Evaluierung und Bewertung neuer Sicherheitstechnologien und Markttrends hinsichtlich IT-Security auf Anweisung des AGs, Darstellung von Risiken und alternativen Lösungsmöglichkeiten

Analyse und Bewertung von Anforderungen hinsichtlich der Auswirkungen auf die Architektur und zukünftige Betreibbarkeit, Unterstützung der

Weiterentwicklung der Gesamtarchitektur des AGs

Zusammenarbeit mit Stakeholdern und Schnittstellen, z.B. weiteren Supporteinheiten und Dritten

Durchführung der Qualitätssicherung von Eigenleistungen, z.B. durch Code-Reviews

Einspielen regelmäßiger Updates auch zur Sicherstellung der Kompatibilität zu bspw. Middleware oder Datenbank-Updates

Implementierung von Anwendungen, Softwarekomponenten und Schnittstellen zu Datenbanken oder anderen Applikationen

Programmieren von Skripten zur Automatisierung, z. B. von Monitoring, Code-Analysen oder Build- und Release-Prozessen entlang einer CI-/CD-Pipeline, unter Verwendung von Tools wie Gradle, Git, Ansible, Docker, Jenkins oder Kubernetes (im Idealfall in einer verknüpften Toolchain)

Source Code- und Versionsverwaltung mittels Tools des AGs wie Git, Apache Subversion (SVN), CVS oder BitBucket

Design von Testkonzepten, Testszenarien, Testfällen

Erarbeitung eines Vorschlag zur Festlegung der Teststrategie

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Planung, Steuerung, Durchführung und Überwachung der Testabläufe

Durchführung von Testabläufen

Aktive Durchführung von Tests

- Unterstützung bei Pen-Tests
- Chaos Monkey-Tests

Analyse der Testergebnisse

Administration der Testtools

Kontinuierliche Weiterentwicklung und Optimierung der Testabläufe und Tools

Vorantreiben von Testautomatisierungen

Dokumentation von Testergebnissen und Abweichungen

API Design und Wartung durchführen

CVE Scans durchführen

Beantragung von Infrastruktur

Rollback-Konzept erstellen

Löschkonzept erstellen

Logging-Konzept erstellen

Konfiguration der Services durchführen

Fehlermanagement auf allen Tools des AGs durchführen

Durchführen von Deployments auf allen Stages inkl. der LIVE durchführen

Konfiguration, Wartung und Überwachung eines umfassenden Monitorings der Komponenten im Scope

Integration in die vom AG definierte Monitoring- und Systemlandschaft

Ausführung der Rolle des 2nd Level Support und des 3rd Level Supports

Annahme und Herbeiführung von Lösungen zu Serviceanfragen und

Störungsmeldungen

Wenn erforderlich die Weiterleitung und proaktive Nachverfolgung

(Ticketnachverfolgung) von Service Requests und Incidents an weitere

Supporteinheiten inkl. vorheriger Qualifizierung

Annahme von Changes und Sicherstellung der erfolgreichen Umsetzung aller

Changes, auch im Rahmen von Minor Releases und Major Releases.

Dokumentation von "Go-to-Green"-Maßnahmen für die Entwicklungsteams in konkretisierten Jira-Tickets.

Erstellung von Ergebnispräsentation

Erstellen von Kostenschätzung

Komplexe Zusammenhänge verständlich darstellen

Erstellung und Pflege von Dokumentation und Reporting

Beratung des AGs hinsichtlich

- Security-Themen
- Technische Beratung
- Beratung/ Schulung der Marken f
  ür evtl. Anbindungen

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Innovationsmanagement

Einbringen von Optimierungsansätzen und Verbesserungspotenzial

Vorbereitung, Durchführung und Nachbereitung von Meetings

Berichterstattung gegenüber dem AG

Aufzeigen, Analyse und Abarbeiten von Problemen, Risiken und Hindernissen,

durch z. B. die Erstellung von Risikoanalysen

Einleiten von Eskalationen bei Bedarf

Abstimmung mit Dritten z. B. weitere Teams der Umsysteme

Usermanagement z. B. B2B User anlegen, User Rechte beantragen usw.

Bei Bedarf Vor-Ort-Unterstützung z. B. bei SOPs des AGs

Zusammenarbeit und Kommunikation mit Stakeholdern und Schnittstellen, z. B. weiteren Supporteinheiten und Dritten

Vollständige und nachhaltige Dokumentation im Ticketsystem

Umfangreiche Dokumentation innerhalb der Prozesse, z. B. ASPICE

Proaktive Teilnahme am Continuos Service Improvement

Erstellen und Pflegen von Wissenseinträgen

Für die Leistungserbringung sind verschiedenste Skills erforderlich. Der AG setzt folgende Skills innerhalb des DevOps-Teams voraus:

Tiefgehende Erfahrungen in der Anwendung und in der Umsetzung von agilen Projektmethoden auf Basis von Scrum und SAFe

Sprachanforderung gemäß CEFR: Deutsch und Englisch (mind. ein Profil C1 das zweites Profil B2)

Belastbarkeit in Stresssituationen, Umgang mit unvorhersehbaren Situationen

Verständnis für Kundenbedürfnisse und -probleme

Hohe Feedback-, Kritik- und Konfliktfähigkeit

Hohe Teamfähigkeit und Sozialkompetenz

Zeit- und Selbstmanagement, hohe Eigeninitiative

Hohes Qualitätsverständnis und Professionalität

Verständnis zu Prozessen und Abläufen in der Automobilindustrie

Erfahrungen in der Anwendung und Umsetzung von agilen Projektmethoden auf

Basis von Scrum und SAFe

Scripting- und Programmierfähigkeiten

Know-how in Virtualisierungslösungen

Tiefgehende Fachkenntnisse in Development, Operations und Agilität,

Datenbanken und Automatisierung

Sehr Erfahren hinsichtlich Softwareentwicklung

Sehr Erfahren hinsichtlich Testverfahren, Teststrategien und Testsystemen (Tools)

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2.4.7 Meetingstruktur	

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In the following tables, the meetings are further speci ed. Among other things, it is shown what the designation of the meet ing is, in which tumus the meet ing takes place and which locatio n must be chosen.

The meetings described in the following do not have any claim at this point in time. .s on comple11 it. The gemactite11 details are intended to clarify the character of the meeting.

The I halte are for orientation and are not yet final and complete. The m eetings are strongly oriented to the selected Frsmework and can be extended or changed in case of need and after agreement between the employee and the employer.

During the fade-in phase and the contract period, the AG may decide to harmonize meetings or expand the group of participants, e.g. by adding third parties. To harmonize meetings or to extend the circle of participants, e.g. by adding third parties. Offerne r points are also further concrnte d in the FadeN2l phase.

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#### 2A.7.1 Control circuit

The Contractor must, together **with** the Client, carry out and rework the above-mentioned coordination (input of main topics). The list has not claim to validity. The meeting is initiated by the WG.

Duration	approx. hours2	
Appointment type	Prf.iBen z	
Agenda	<ul> <li>M anagem ent Summary of the Scope of Performance</li> <li>Escalations rn the service level attainmentu11g and in the general n Service eribring (u. IJ. P un ct s t hat could not be clarified in t he following 11meetings).</li> <li>Differences between expected and actual performance</li> <li>W esen11l changes in the service organization (of the CO and the CL)</li> <li>Contraglrcine Aspect s (high level or escalations)</li> <li>Commercial aspects (high level or escalations)</li> </ul>	
Frequency	Inner half of the fade-IN phase mo11atly danacln qua rta lly o r monthly as needed.	
Participant er	Service Manager (AG/AN) Account Manager (AG/AN)	

# Table12 control circuit

Abtcilung:	,	,."::'.ll2
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#### 2.4.7.2 Service Review Meeting

The Contractor must preparell, check and rework the above-mentioned reconciliation. The list does not claim to be complete.

Duration	approx. hours2
Appointment type	Prf.iBen z

	• Review of the service (compared to Vmrn eeting) , et al.  In Qualit y (tests)  In Cost  Bugs created vs Bll gs solved
	<b>Daphbfle</b> of thesupportstoburd9'1pe&mie9Ji{: e"
	eng _la t i o n o f suitable s u p p o r' t s to l osu 11g t h
	e.s.
	C ha nc en and Risike n of the: Service
Agenda	• 0
	<ul> <li>Representation of the KPI/ SL A e rreichling</li> <li>Presentation of the services rendered (performance record for invoicing)</li> <li>Presentation/accounting of possible penalties</li> <li>Representation of opt imization pote ncials</li> <li>Contractual aspects</li> </ul>
Frequency	monthly
Participant er	<ul> <li>-Service Manager (AN)</li> <li>Service Owner (AG)</li> <li>W ether re le vant roles (AG/ AN)</li> </ul>

Table13 Service Review Meetiflg

Abtcilung:	<sub>9</sub> ,"::'.ll2
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Forewarned	Scitc: \:JB from 16!:i

#### 2A. 7.3 QuaHty Board

The Contractor must prepare, durcil and rework the aforementioned reconciliation. The list has no claim to completeness. The input for the meeting comes from both the CO and the AG.

Duration	O,b I i, ge
T ermine type	Pr8sen z

Agenda	Gathering of optimization potentials of the service by adapting the processes to be agreed upon in the meet i11g by the contractor.  of the data. VarsIstellu n g van L6sungssze nariies in connection with Optimization1 pote nzi Ale1.  Analyze, observe and improve the processes:10:  Servkequ alit at Results of the analysis of performance (man gel elimination) Documentatronsq uality Project qualitat Presentation of possible optimization potentials 0e process) Presenting new magnements for optimizing the processes Review of measures of the premeeting Determining the effects on the service level bZVI!', on the
Fraguenay	K fJI
Frequency	quarta Iswe rse
Participant	<ul> <li>Service M anag er (AN)</li> <li>Service Own er (AG)</li> <li>Other re levant roles (AG/ AN)</li> </ul>

Table 7.<:1Qual ity 180.ard

Abtcilung:	,-,	,."::'.  2
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#### 2A.7.4 Innovation Board

The Contractor must carry out and rework the reconciliation preparations . The list has no claim to completeness.

Duration	O,b I i, ge
Appointment type	' rf.isenz
Agenda	New requirements (sfehe Chapi te I New requirements; Optimferung svarschlage from all verantwotldi rnn8 ereichen u, B. Contiual11 Service Improvement Introduction of trends, new techno logy 11,processes, value enhancement At the request of the Client, the Contractor shall subsequently submit a schedule and price planto the Client. to the Client. The Contractor must also check whether this results in optimizations to its price model. The implementation of optimizations and innovations always requires prior approval by the Client.
Frequency	half year Irch
Participant	<ul> <li>Service M anag er (AN)</li> <li>Service Owner (AG)</li> <li>Other re levant roles (AG/ AN)</li> </ul>

Table1 5 Bo.ard

Abtcilung:	,	,."::'.ll2
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#### 2A. 75 Project meeting (/ntegrated project

The Contractor must preliriteri, durcilf tihren urid rework the rianned reconciliation1Jng. The list does not claim to be complete.

Duration	depending on project scope	
Appointment type	r8&en z, possible after consultation with the A:G remot e	
Agenda	<ul> <li>Project status Icontent (Achieved and Planned)</li> <li>Schedule</li> <li>Cost plan</li> <li>Quality of the results</li> <li>Risks</li> <li>Interfaces and dependencies</li> </ul>	
Fre quence	as required 1within the framework of Integrated Rrojects	
Participant	<ul> <li>Project Manager (Integr ferte Projects) (AN)</li> <li>Project Ma nager (AG)</li> <li>WeUr roles as required (AN/AG)</li> </ul>	

TabeHe i6Project meet ing (Irit egrat ed project s)

#### 2.4.7.6 Fade-rN Meeting

The Contractor must prepare, check and rework the specified section. The list does not claim to be complete.

Duration	Approx. hour112
Appointment type	Presence, after consultation with the AG remot e possible
Agenda	<ul> <li>Revie1,v Tra11sitJ1on -l-progress e (compared to premeeting)</li> <li>Displaying op,t imation potenzis es</li> </ul>
Frequency	The meeting takes place weekly for the duration of the Fade-IN phase, or several times a week if necessary.
Participant	<ul> <li>Transit ion Manager (AN)</li> <li>Alie further rn levant Ro II en 11ach Be darf (AN/ AG)</li> </ul>

Table 17 Fade-IN M eeting

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#### 2.4.7.7 Release Planning Termin

Der AN muss die genannte Abstimmung für seine Themen vorbereiten, durchführen und nachbearbeiten. Die Aufstellung hat keinen Anspruch auf Vollständigkeit.

Dauer	Ca. 1 Stunde
Art des Termins	Präsenz sowie nach Bedarf chline
Agenda	In diesem Meeting befüllt das Release immanagement Team des AGs das kommende Release mit Inhalten bzw. Change Requests. Jeder Product Owner des AGs und jeder Proxy Product Owner des ANs darf daran teilnehmen und darin eine Umpriorisierung seiner CRs melden. Zudem werden in diesem Meeting Risiken und Probleme bei der Abarbeitung der Stories von den Clustermanagern gemeldet.
Frequenz	wöchentlich
Teilnehmer	Releasemanager-/in (AG) Service Owner (AG) Proxy Product Owner (AN)

Tabelle 18 Release Planning Termin

#### 2.4.7.8 PI-Planning (Planungsworkshop)

Das PI- Planning wird in Kapitel PI-Planning (Planungsworkshop) beschrieben.

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#### 2.4.7.9 Story Breakdown Meeting

Der AN muss die genannte Abstimmung vorbereiten, durchführen und nachbearbeiten. Die Aufstellung hat keinen Anspruch auf Vollständigkeit.

Dauer	Ca. 1 Stunde
Art des Termins	Präsenz sowie nach Bedarf chline

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Agenda	In diesem Meeting brechen der Product Owner des AGs zusammen mit dem Proxy PO und dem Anwendungsteam des ANs die Funktionalität in User Stories mit dem dazugehörigen Story Points runter. Die daraus resultierenden User Stories werden in den nächsten Sprints eingeplant.  Basierend auf den Reference User Stories wird eine Precision Estimation hochgerechnet und mit dem Product Owner des AGs vereinbart.
Frequenz	Beim Startpunkt der Entwicklung jedes neuen Features. Das Meeting findet in der Regel im Rahmen des PI-Planning statt. Muss kurzfristig eine Anforderung eingeplant werden, wird ein separates Story Breakdown Meeting vereinbart.
Teilnehmer	Product Owner (AG) Proxy Product Owner (AN) DevOps-Team (AN)

Tabelle 19 Story Breakdown Meeting

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#### 2.4.7.10 Sprint Planung

Der AN muss die genannte Abstimmung vorbereiten, durchführen und nachbearbeiten. Die Aufstellung hat keinen Anspruch auf Vollständigkeit.

Dauer	h diesen leseling westen der Probud. Over itse Ris ausemmen mit den
Art des Termins	Präsenz sowie nach Bedarf chline
Agenda	Bei der Sprint-Planung wird definiert, welche User Stories konkret im Sprint ausgeliefert werden können und wie diese umgesetzt werden sollen. Bei der Sprint-Planung arbeitet das gesamte DevOps-Team zusammen.
Frequenz	Findet zweiwöchentlich vor Beginn eines jeden Sprints statt.
Teilnehmer	Product Owner (AG) (Optional)  Tabelle 18  DevOps-Team (AN)

Tabelle 20 Sprint Planung

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#### 2.4.7.11 Sprint Revie w Meeting

The Contractor must prepare, check and rework the ge11anrite reconciliation. The report has no claim to completeness.

Duration	Approx.1 hour / (DevOps team x sprint)
Appointment type	Prasence and as needed cnline
Agenda	At the end of the sprint, the team prais, enties the developed user stories (development deliverables) within the sprint review meeting. The team shows only those functionality s11 that are ready for immediate productive use. I\licht tested or unstable functionality is are not shown and are not considered to be supplied.  The includes the team to learn systematically. It analyzes which work processes need to be improved in order to make the team more effective.  arbeit e11 cann.
Fr equence	at the end of each it sprint s
Participant	Service Own er (AG) Table 18 LJe vOps Team (AN)

Table2 iSprint Review Mee tirig

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#### 2A Meeting7.12 for functional acceptance

The Contractor must prepare, check and rework theaforementioned reconciliation. The list has no claim to completeness.

Duration	Approx. minutes30
Appointment type	emote
Agenda	<ul> <li>Presentation of devel opment for t u11k t i onal acceptance         Discussion of the agreed Definit ion of Done (DoD) for the         tunktionaldecrease</li> </ul>
Frequency	After completion of a functionality

Teilnehmer Service Owner (AG) Tabelle 18	
--	--

Tabelle 22 Meeting zur funktionalen Abnahme

#### 2.4.7.13 Deployment Freigabe-Meeting

Der AN muss die genannte Abstimmung vorbereiten, durchführen und nachbearbeiten. Die Aufstellung hat keinen Anspruch auf Vollständigkeit.

Dauer	30 Minuten
Art des Termins	Präsenz sowie nach Bedarf chline
Agenda	Das Meeting ermöglicht dem Team, gemeinsam über das letzte Deployment in der jeweiligen Umgebung zu gehen. Alle Testing-/Freigabeempfehlungen werden durchgesprochen und gemeinsam bewertet. Das Ziel ist, pro Applikation zu entscheiden, ob die deployte Version weitergestaged werden kann oder noch Troubleshooting und Bugfixes benötigt werden.
Frequenz	Wenn es Bedarf (Troubleshooting/Bugfixing) dafür gibt, in der Regel 2 Tage nach jedem Deployment.
Teilnehmer	Product Owner (AG)  Weitere Rollen nach Bedarf (AG)  Tabelle 18

Tabelle 23 Deployment Freigabe2Meeting

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2.4.7.14 inale Abnahme

Der AN muss die genannte Abstimmung vorbereiten, durchführen und nachbearbeiten. Die Aufstellung hat keinen Anspruch auf Vollständigkeit.

Dauer	Ca. 30 Minuten
Art des Termins	Remote
Agenda	unktionale Abnahme finale Abnahme unktionalen Abnahme finalen Abnahme
Frequenz	Tabelle 22

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Teilnehmer

# Service Owner (AG) Tabelle 18

Tabelle 24 unktionalen Abnahmefinalen Abnahme

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#### 2A Test7.15 Framework Meeting

The Contractor must prepare 11, perform and reprocess the reconciliation. The list has no claim to completeness.

Duration	approx. hour1
Appointment type	rf.isienz, after consultation with the .A:G remot e possible
Agenda	The purpose of this meet ing is to synchronize the te.st framework of the trades. By cias: using a common database, the syne rgy effects are to be raised. Functions that are shared should only be developed once.  Agenda  Open points Which functionswere implement ed Which functions are to be implemented? Capac it at splanu119 Further
Frequency	Qua1rt alswe ise
Participant	<ul> <li>Test Framework Manager (AG)</li> <li>Qualit y Manager (AN)</li> </ul>

### T abelle 25 Framework Meet ing

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#### 2.4.7 .16 Incident Review (Testing)

The Contractor must prepare 11, perform and reprocess the reconciliation. The list has no claim to completeness.

Duration	approx. hour1
Appointment type	rf.isienz, possible after consultation with the AG Remot e

	The purpose of this meeting is to analyze and discuss whether incidents that have been reported can be detected during the testing process.
Agenda	<ul> <li>Discussing incidents</li> <li>Aftercare</li> <li>Coordination of measures and work arounds</li> </ul>
Frequency	Quarterly. at 8edarf monthly
Participant	<ul> <li>Test Manager (AG)</li> <li>Tabelle 25</li> </ul>

T a be lle 26 Incident Review (Te sting )

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Forewarned	Scitc:	<b>110</b> from 16!:i

#### 2A KPM7.17 Board

The Contractor shall prepare, perform (mode ri:er) and post-process the said reconciliation. The list does not claim to be complete.

Duration	Approx. minutes30
Appointment type	Presence, after agreement with the AG remot e possible
Agenda	Spez i a l t r a p , cross-country skier. Reope n gt. Srntus oberfuhr un g Tic kets in further tools  Dur chspr.a che from akt ualKPM l ickets o color liation of MaBn.ah men and Worlkarounds  Innovation and sales propositions o 1Monto ring toward JI RA adjustments of error be n1cll ts wesen.  Value adaptations and optimizations hn1 view of the workflow.  Create appointment contents au color ites protoco lling  Create met rics  Create St.at us reports
Frequency	Retaasemanager
T eamers	<ul><li>Relevant contact person of the AG</li><li>Table 18</li></ul>

#### Table2

#### 7KPMBoar

<sup>0</sup> Abtcilung:	,	,."::'.ll2
20.12.20 21	Anderur1gsst:an d:	from
Forewarned	Scitc:	111 from 16!:i

# 2A Deployment7.18 Planning Meeting

The Contractor must participate in the aforementioned vote and prepare its relevant content. The list has no claim to completeness. The meeting is initiated by the AG or by a third party authorized by the A.G.

Dauer	2 Stunden	
Art des Termins	Präsenz, nach Absprache mit dem AG remote möglich	
Agenda	Planung und Einsatz Ressourcen auf Basis des DeploymentI Kalenders und Deployment Forecast:  O Anforderung und Einplanung von Software-Deployments Durchsprache Eventkalender für die kommenden beiden Wochen und Abgleich mit der Planung für die produktiven Deployments Review/Lessons Learned der Deployments der Vorwoche	
Frequenz	Releasemanager	
Teilnehmer	Deployment-moordinator (AG) Relevante Rollen zu den geplanten Deployments (AN) Weitere relevante Rollen nach Bedarf (AN/AG)	

Tabelle 28 Deployment Planung Meeting

Abteilung:	T1	: W2
20.12.2021	Änderungsstand:	von
Vertraulich	Seite:	112 von 165

2.4.7.19 Operations and Support

Der AN muss die genannte Abstimmung vorbereiten, durchführen und nachbearbeiten. Die Aufstellung hat keinen Anspruch auf Vollständigkeit.

Dauer	Ca. 2 Stunden	
Art des Termins	Präsenz	
	Betriebliche Belange und geplante Aktionen an der Infrastruktur und an den Applikationen in Form einer Aufstellung durch den AN (low level)	
	Eskalation für betriebliche Themen	
	Review Status des Betriebs	
Agenda	Status einzelner Maßnahmen Geplante Aktionen	
	Offene Punkte aus dem Betrieb	
	Status Optimierungen	
	Schnittstelle zu Projekten/sonstigen Gremien	
	Ergebnisse der RecoverylTtests	
	Kapazitätsplanung	
Frequenz	Wöchentlich	

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	•	Service Man.ager (AN)
Participant	•	Service Manager (AG)
	•	Further releva nt e roles to Operations and Support (AN/ AG)

#### 29 and Support table

Abtcilung:	,-,	,."::'.ll2
20.12.20 21	Change state:	from
Forewarned	Scitc:	113 from 16!:i

#### 2A Daitv7.20 St and -Up O perations

The Contractor must prepare, perform and rework the ge11anrite reconciliation. The list has no claim to completeness.

Duration	Approx. minutes30	
Appointment type	Presence, after consultation with the AG remot e possible	
Agenda	Reconciliation of the operational aspecte  Actus IIe/ driingli che/ short termUgeThsmsiii wis e.g. Critical Incidents Prio 1/ Incident2 s of the let t east 2-4 hours (or of the let t east day) Weekend) Pending softwa reeploymen ts and emerge ncy fixes	
Frequency	E ach workday (M onta g Na‼-rejt r g)	
T eamers	Service Man.ager (AN)     Other responsible contact partners of the A s and AGs (optional, depending on the situation)	

T ab ell e 30 Daily St and-Up Operations

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#### 2A Chang7.21 e Advfsory Boards (CABITT

The Contractor must prepare the content for which he is responsible for the reconciliation, process it using the tools and, if necessary, evaluate the effects and dependencies Evaluate the effects and dependencies of the discussed topics and derive and document the relevant tasks. The list does not claim to be complete.

Duration	cs . <b>7</b> -3 hour per week (duration and number may <b>vary</b> )
Appointment type	Presence, after agreement with the AG remot e possible

Agenda	<ul> <li>Introductio n o f vo11 p lant en Chan ges (high and medium) cles ANs (AN is responsible)</li> <li>Presentation of planned changes (high and medium) of the AG to other commissioned third parties (AG is involved or in form).</li> <li>Reconciliation of technical impact1Jnge nand dependencies</li> </ul>	
Frequency	ReJBasamanager	
Participant	<ul> <li>Servioe Manager (AN) ode r sine ausBagefahige Ro II e o f the AN.</li> <li>Deployment Coordinat or (AG)</li> </ul>	

Table3 iChange Advisory Boards (CABs)

Abtcilung:	,	,."::'.  2
20 -1 2.2021	Change st:and:	from
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2A Incident7.22, Service Request and Problem Review Mee-tings.

Within the scope of the Incident, Service ReqJestii2 and Problem Management processes, several consultations with the customer are necessary on a weekly basis.

The Contractor shall prepare, perform and rework the reconciliations. The list has no claim to completeness.

Duration	approx. b-10 St un de11 per woch (duration and number may vary)
Type of appointment	Prase nce, rem ot e possible after consultation with AG
	<ul> <li>Incident Management / Request Fulfil Iment <sub>o</sub></li> </ul>
Agenda	Tickets: Spez. ialfall e, Langlaufe r, Reope n Abst imm entionof m aBna hmen ts and work arounds Nachbetrn cht ung von geloste n l11c ide n t s Presentation of KPI l)z-vS A achievement  Problem management Ticke ts: Long-running. M af.sn ahme 11 . to Major Incident Identifi cation not we n di-ger MaB. n ah men results of Root Cause- Atrn I yses. Discussion of current incidents / service requests 0 0 0
	Discussing current problems Prioritization of problems oten target le new problems Reconciliation of solved problem s Presentation of the KPI I)z-vS A Achievement
Fmquency	Retaasemanager
T eamers	<ul> <li>Serv ice M anager (AN) or e1ne au ssagefah ious role of the AN's in the</li> <li>C riti cal Incide nt M anager (A N)</li> <li>Operati ons and Support</li> <li>Major Inci dent M anage r (AG)</li> <li>VVei t ere responsib le Ans prechpa rtn e-r cl cl0cs AN s und AGs (opt iona I, depend ing on situat ion)</li> </ul>

Table32 Incident. Service Re quest and Problem Review Meetings

Abtcilung: 20.12.20 21 Forewarned		Change st:and:	,."::'.ll2 <b>from</b> 116 from 16!:i	
2A Prio7.23 1and Prio Revrew2 Meeting				
The Contractor must	orepare the contents for <u>th</u>	<u>ie vote,</u>		
evaluate the topics dis	 scussed and derive the tas ist does not claim to be <b>co</b>		im/her and	
Duration	Depending on need			
Type of t erm ins	ernot8			
Agenda	<ul> <li>Current Prio and 1 Pr1o T2 i ckets / Probl ems</li> <li>Identifi cation no t we n di-ger measure. n ah me11</li> </ul>			
Fr equence	in A11schluss / am Folget ag (AT) a es Pn1o un1 d P rio Inci2 den t			
Participant er	• T-el 3 • Prob eman ag	t M an.a ger (AN)	d (AN/ AG).	
Table33	Prio and1 Fr io 2 ReviewM e	ee t in g		
Abtcilung: 20.12.20 21 Forewarned		Change st:an d:	,"::'.ll2 from 117 from 16!:i	
2A Monitoring 7.24Me	eet in g			
The Contractor shall be	e responsible for the conten	ts of the <u>agreement=</u>	==- <u>.</u>	
evaluate the topics dis	====TM scussed and derive the tas t ell has no claim t o comp			
Duration	1 S tJ n d8			
Appointment type	ernot8			

Duration	1 S tJ n d8
Appointment type	ernot8
Agenda	<ul> <li>Current status dashboards and monitoring tools</li> <li>A n fo rdingm anagem en t to M o11it orin g Processes and Tools</li> <li>Best practices</li> <li>Iden tifi cation o f neces sary m easures. n ah me11</li> </ul>

Frequency	Weekly
Participant	<ul> <li>Service Man.ager (AN)</li> <li>Product Owner (AG)</li> <li>Service Owner (AG)</li> <li>Alie further rn levant roles 11according to the may (AG/ AN)</li> </ul>

Table 3.41 Im it oring meeting

# 248 Escalat ion Management

Service2 escalations occur when service level violations occur repeatedly or persistently, or the service quality as a whole does not meet requirements. Finam:2Escalations occur when the rema 3. or reclamation cannot be created agreeably. Project escalations occur when deadlines, times, or costs defined in the project contract are not met.

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The escalation levels and 1,2 occur3 in the following traps:

<u>scalation level 1</u>: exceeding of the KPIs defined in the chapter Service Level, according to the processes described there or general problem with the quality of the service or project activities.

<u>Escalat ion level 2:</u> The escalat ion level is 2used. if escalat ions of level 1 occur repeatedly or permanently or cannot be solved.

Escalat ion level 3: The escalat ion level is 3 used when permanent

Whether escalation level 1 violations occur and no resolution could be achieved in escalation level 2. In addition, escalation 3 levels are set if the disruptions are particularly significant for service delivery, service quality or the goals to be achieved with the service.

During the fade-in phase, these esscenarios can be further adapted and optimized. However, the escalation procedure described here must at least be followed in each case. If nothing else is defined in the Fade-IN phase, all roles of the Client can address each escalation role of the Contractor.

The Service Manager must ensure that in the event of escalation, the contact person with authority to issue instructions from the same company hierarchy acts on the side of the Contractor.

## 249 Documentation

All activities necessary within the scope of the service, procedural instructions, Responsibilities, task and process descriptions as well as tools and resources are documented and maintained by the Contractor in the service documentation system specified by the Customer at a high quality level.

The Contractor shall grant the Purchaser permanent access to the said documentation.

The documentation and all works created with this order shall become the property of the Client after completion. The Client shall have the sole right to use the documentation after the end of the contract.

In the fade-in phase, the Contractor must agree with the Client which tools are to be used for which Documentat ions are used at the AG.

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Furthermore, he has to specify where gaps in the necessary documentation are to be **found**. exist. After **consultation** with the Employer, the Contractor has to fill these gaps with his own methods. to sch ran5en.

For this purpose, the Contractor may or must, as the case may be, import its own tools free of charge and use the indocumentation tools available at the Client as a supplement. Data stored there shall be submitted to the Client at the end of the contract in a standard format (csv, etc.) as required.

## 2A9 . 1 Document ation of the activities (process

The Contractor must prepare an activity documentation for each task not yet documented. first. This document ation must show all steps in the correct order and with the tools and cut the ers to be used.

## 2A9.2 Documentat ion of S\,'stems (Theme

The Contractor shall be obliged to carry out the continuous documentation of the technical systems. This documentation shall be provided to the Customer continuously and electronically11. For this purpose, he shall apply the tools,procedures and processes used by the AG. The documentation shall be provided continuously and electronically.

## 2A.9.3 CJ' - Documentation (CMS/CMDB)

The Contractor shall ensure that all configuration items (CI) of its service are documented loosely and completely. This document ation must be carried out in each case when the activities are performed.

Furthermore, the Contractor shall ensure that the data stored in the central data collection. The same applies to all tasks that require this information. For this purpose, filling and using processes are to be defined and corresponding instructions for the service-providing personnel are to be created.

In order to achieve this, the Contractor shall perform the following activities:

- Spezmka tion of arlbe it sschr it t e in all relevant processes that are considered filler processes in the ralimen of Cl2 capture.
- Maintenance/updating of the tools to be used for documentation.
- Definition of the work steps to be performed for the documentation.
- Descrip tion of work steps in I eistu' ngs docum ent ait io n.
- Instruction of the personnel in the work steps.

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lauf end Qualit at ssiche rung.

The same activities must also be specified for the processes to be used. These are also to be marked in the frocess pls and the corresponding instructions are to be given. to develop, to train and to check for sustainability.

In the document ation of this specification, the term CMDB is used as a comprehensive data collection of all configuration items. It is not assumed that this is a tool, but rather that a collection of tools and documentation components is used as a CMDB.

The Contractor shall agree in the Aspect iRAci t1LTI(M agree with the Employer which tools are to be used for which tasks at the Employer.

Furthermore, the Contractor shall specify where gaps exist in the necessary documentation and the tools provided by the Client. These gaps shall be closed by the Contractor after consultation with the Client using his own methods.

The Contractor shall ensure that a complete CI documentation is made in the Customer's tools (as far as possible).

#### 2.4.9.4 Performance documentation

The Contractor undertakes to continue/ update the existing documentation.

The Contractor is the "owner of the document" of the performance documentation, even after it has been created. However, the performance documentation remains the property of the Client. It shall be presented to the Client upon request or handed over upon termination of the contract.

The Contractor is responsible for knowledge management, knowledge transfer and the overall documentation of the service, the service processes and the service systems.

The Client shall specify the structure 1.m d the principal contents of the performance documentation. The Contractor has the task of conducting the service documentation on the basis of this structure. The following process is defined for this purpose:

- The Client shall specify to the Contractor the sequence of topics, se rvices and chapters to be included by the Contractor in the performance documentation.
- The Contractor presents a draft concept to the Client.

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- The Client and the Contractor shall reach a consensual decision on the financial content.
- The CO adapts the concept and adds the fin ale version to the Leis t1J ng sdocumen t at ion.

The defined content is binding for both sides11.

## 2. LJ. 9. 4. Perform ance docum ent atiori developm ent, test ing and soft w asrepair (LCM)

The Contractor shall be responsible for the preparation of the gessmt en devel opmental and The AG is responsible for the documentation relevant to the acceptance (quality gates) 1. The creation and maintenance are carried out in accordance with the requirements of the customer and in the specified tool.

The devel opment documents include 6 re 111 the following analysis bzvv. Arbeit ser results:

- Mod ul specifi cations
- Concept s incl. Functions architecture and the Socurity requirements
- · Rele ase -Not es
- Inst allation G ides
- Ri sik o accept ance Crtt:e rium (RAC), werm eli orderly
- · list of source code 2 amendments
- Document ation according to. AS PICE (Workpro ducts u11d Process out comes )

The Client expects the Contractor to provide a tick et doc ument ation that is free of irregularities and is in good condition. The

The activities and the status of the curentactivities must be visible to the client at all times in the corresponding ticket, e.g.

- Are all processed deployment2 tickets listed in the log?
- Are test t asks available at deployment tick' es. beHillIt and closed?
- Are all processed ticket s from the backlog (e.g. REQs6., User St ory, C R) listed in the acceptance?
- Are all test cases for the respective processed tick:et linked from the B acklog linked?
- Are all tokets linked to the respective processed ticket from the backlog?
- Are all regression test s listed?
- Have all LuP tests been performed and executed?

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# 2.LI. 9.4.1.2 L eist u ngs document at ioll Operstionsnd Support

t is obliged to keep an operating low (BHB) for the contents relevant to its operations. tion of the work. In this context, he has to orientate himself on all the ex-act nomenclature specifications of the examples provided by the client (trade description, process description, process plan, task list, task description, etc.).

If other operating manuals are available11, their contents and design specifications11 shall apply. The operating manual shall be compiled by the Contractor in accordance with the tools provided by the Client and shall be defined at the beginning of the Aspect || Phase. The desobed trades and processes are to be concretized and specified by the Contractor in such a way that they can be documented in a structured operating manual 111. This task has to be taken over and successfully completed by the Contractor irnll erhought has been described by the Contractor irnly erhought has been described by the Contractor irnly erhought has been described by the Contractor irnly erhought has been

Furthermore, the Contractor shall ensure the continuous maintenance and continuation of the The service manual must be updated during the operating phase. Changes (at the request of the customer or due to changes in historice) must be incorporated into the operating manual outside the service level specifications.

The operating manual shall be prepared and kept available in the Client's premises so that it can be accessed at any time by the Contractor, the Client and other authorized third parties.

The Contractor shall, at its own expense, procure an appropriate quality cat ion for the system11 in order to be able to perform the tasks assigned to it in the required quality.

#### 2 . L1.110 B eric ht sw esen

The Contractor shall develop a suitable reporting system for its services. For this purpose, the Contractor shall follow the specifications and, in particular, the processes and procedures defined therein.

The Contractor shall orientate himself to the work steps. On the basis of the contents presented there, the Contractor shall

The Contractor shall determine which reports are to be submitted by the Contractor to the Employer. The Contractor shall submit this list to the Employer in the fade-in phase.

In this list the Contractor has to name and z1.1 q u alify the required reports. After the definition of the process for which the report is to be used, its unique designation is given. The Int erval! is also defined, in which the report is to be compiled on a regular basis. The deadline specifies the time by which the report must be submitted to the AG at the latest. The type defines the medium / format in which the report must be prepared. Besides ... PDF", other office formats, portals or cockpit representations are also possible. The presentation of the reports does not have to be static and can change according to the client's requirements during the contract period. In the distribution, the

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Med ium of com m unicat ion, how the place of deposit is defined and where the resultiffs are fifthe reports have to be stored in a structured way. In principle, the Contractor is the creator of the reports. The recipient is defined by the AG for each IBeport. The content of each IBeport is defined within the framework of the Fade-IN Priase VJi.

In addition to the defined reports in the processes, further reports can be defined at the request of the Client, if they relate to the context of the Contractor's service. In addition, summary reports can be defined, which refer to the input from the service.

The reports can be defined for several processes. Some of these supplementary reports are already entered in the table.

The Employer shall review and, if necessary, correct the relevant list in accordance!!! with the procedure ANATH MEDIES of that the result is an agreed report structure. The Contractor shall implement and apply this structure.

The Contractor shall develop and establish a suitable methodology to enable reporting. The Client assumes that largely automated processes and software systems will be used for this purpose.

The Contractor must take into account that some raw data, e.g. for Incident, CII an ge, Problem2 and Service Request Management, must be taken from the Client's tools and that these serve as the basis for the reports. For other processes and procedures, which may not be recorded or measured using the AG's tools, the Contractor must develop its own methodology for the coledion of roll data, which is used to generate the IBeport.

The reports, reports and analyses to be prepared by the Contractor shall liset out in Annex H. defi ned.

### 2.L1. 1iTools

In the following, tools are defined as tools and auxiliary means which, in the broadest sense, are required to provide the defined in these specifications or to support their provision. The tools include systems that support and enable the technical activities, but also documentation!!!, billing and control tools. The requirements for these tools result from the specifications and the !!!technologies and activities defined here.

The Client shall provide some of the tools necessary for the performance of the service, either obligatory or optional. The Contractor shall identify the respective gaps himself and shall

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to be created. The implementation of additional tools always requires the prior approval of the PLC.

In the erg,eb11is of the aspect siRIN phase, a full tool landscape is implemented that allows the processing of the perform ance s of this load11book in a complette manner. In order to ensure this, the met hodology defined in the further part is to be applied,

All data belong to the AG and must be handed over.

### 2A11.1 TooJ Review

In addition, the Contractor shall use the tools of the Client presented in the following11 chapter and shall assign them to the required tasks11. In this regard, the Contractor shall consider to what extent the11 tools1 provided by the Client are used or must be used or to what extent these tools provided by the Client can or must be adapted for the specific task.

Customization refers to the tool functions, not to the content of the data in the tool. These must always be adapted to the task,

# 2.4.11.2 Toot'Bereft stertu ng by the AG

Furthermore, the tools are listed, which are provided by the AG either obligatory or optional. Furthermore, it is defined which tools are to be used 1:1 or whether they can or must be adapted.

In the case of the optional tools, the Contractor can decide for itself to what extent it will implement these tools in its service organization or secure this function11,if 11necessary with its own resources.

The tools listed below do not claim to be complete at 11the present time.

Tools can be extended or modified as required and by agreement between the Contractor and the Customer.

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P-,Lless i:111 Co 11f I ence	C-oUa bo rati on ool / documentat ionst ool	l, u,, ii. <b>rn1 Z8</b> 1lr		Х		Х	
Atl ass ian Ji ra	ic ket tool (for some act ivit y s aur@.erho pure en service managemen tr1ii,	calti this		Х		X	
P S,er ,'ice C&r  1 er 3	ISM ooldes AG		Х			Х	
C A-/!. , M	App licat i on Perfor man ce M onit orin g 00 Concern ool	1		Х		Х	
D -n8 Lr e ce	Appl ication Pe rform and e Mon-oring Too	ol		Х		Х	
G-s. f::ikrt	M o ni t o rin Visualization oc I			Х		Х	
Spl1nk	M o n ito ring ogg in			Х		Х	
Kb,na(ELK Sleek }	Monitor ing ogg in			Х		Х	
SPEAK/SMIL E	Concem Monitolling 001						х
eerlb & Sil	M o nitor ing <b>Tool</b>						X
XRAY	Addon :to JIRA			Х		Х	
ConnecTat	es ting to our mess scll nit t places to t este n. The already being automated in the pipeline a as an X 'AY tiesch riaben.		х			Х	
Cort.esI	ool to test <b>ES</b> -Sc hnit t stellen, The to available as SourC(:lcoole in Sittiucket ar Description in XRAY, these are already and are available as an X AY described oon.	nd as a		х		х	
Ge1(J&	e st i ng t oo I for REST interfaces, openso h.au pt saclhlictt for fu nct ioncale S m ok etests	ource,		Х		Х	
T⁢,S	esting Tool + astgenerati.:ir i Qr nice ests, Essentially it consists Last generat ors. The source code is av Bitbucket,	of JMeter and				Х	
C_1,c1 = 1b e1	esting 1;001,  Openso urce, resides as sou rce oode in 8 as description in XRAY VOr.	itbucket and		х		Х	
Selenium / Selc> r- L11'GRIU	OpenSource esti11g ti.:io   :to T esten \ / O n GUIs					X	

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Tool- LE!'rd	Shortoo11g		,! ili tll	to µass a. till 1	pnit:h Lend	op lion al
K PM	VW Kon:zern t ool z:ur support of the etiler shutdown process (AP) and K blsln1 - management process (ticke	o211:arn-Pw et tool).	X		Х	
Swagger Hub	Information source -for section description	ons11				
Concourse	Concourse is ai11 i peline-based. cor.tinuier1ich pirogram.				Х	
J8rikir-s	Cp en-:So1_re:e auiom aUsing server				Х	
Bil,81 <; k8 l	Bitb LJCI( et is a web-based online11 software management system for software and software-related services.  En t development projects.				х	
SonarOube	SonarQubeisl a11 p1att-form for stati:wanalysis u11cl evaluationl.ln g of tecnical ouality of vo11 Ouelltext				Х	
Black D ck	Losu11g for the: Mana gement vo11 Siche Licensing and code quality risks arisin of Open Source in Applications and Cont ainem ent s.				Х	
T& tbleu8	ool for data visualization vo11 Reports				Х	
earns Scale	ool to anisicht und Best immung von e AG	st-Gt,pS T r Jer i	Х		Х	

Table35 Tool,.,

# 2.LJ.11.2.1.1 Test t ools

Open Source/ Standard Solution
State of the Art
Ent Ikop plung vori Fachlichkeit urid Framework
Entkopp lung von zeitlicher Int egration
T ests must be reproducible Test s
must be independent

The AG has :at m skt ual time verscll iederie testtools in use. The AG strives for a harmonized Toollsir7ds chsfur dss Testing ari. The following pr amises must be be berucksictitigt;

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The Contractor has already described in its offer its solution proposal for a unified landscape.

2 L1 .121-'lilfsmittel

### 2A Communicationsmfttel12.1

The Client assumes that parts of the Service can be provided remotely. For this purpose, the Contractor shall provide suitable communication loos1.mes that enable meaningful communication between the Contractor and the Client. In this context, the Client expects at least:

- a web conference solution (desk sharing) ooer
- a teleconferenc e lo s .

Further communication media must be provided by the Contractor in accordance with the state of the art and taking into account the order.

#### 2A12.2 rTS!V 1001'

The ITSM tool used by the customer is to be used for the ITSM processes2. The system is used for the collection, forwarding, processing, tracking and documentation of incidents, problems, changes, releases and service requests. Releases and Service Requests. The ITSM2 tool used by the customer must be used. Automated online sctmittals to the Contractor's own systems are not permitted.

Knowledge of the client's ITSM tool is required of the employees deployed by the contractor.

#### 2.5 ResponsibilitieS

The performance of the services described in these specifications must be ensured within the specified period of time.

A substitute arrangement must be ensured. A reduction in the scope of services will not be accepted.'

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The Contractor shall be responsible for ensuring that the services performed are carried out and provided in a professional and qualitatively flawless manner.

Prior to signing the contract, the Contractor shall notify the Client of any inaccuracies, missing contents, deviations and contradictions in the services described. The Contractor shall include this information in the specification of the thematic and / or procedural content of the services.

The Contractor shall be responsible for qualifying the quantities and financial value. Any delays caused by the Contractor which result in additional costs shall be borne by the Contractor.

## 2.6 Listingperiod

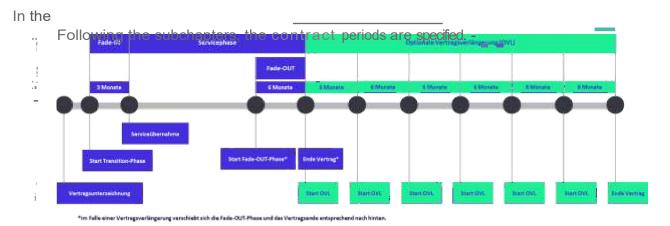


Fig fld II ng Overview9 contract term and phases 2.6:1

# Contract term

The contract shall commence on the date of 01.07.2022commencement of the Fade-IN Phase. The Fade-IN phase is planned for three months. After three months, on 01.10.2022. the voile service responsibility according to this service description for the Contractor begins.

#### 2.6.2 Contract send

The contract ends on 6.2027, 30.0 without the need for notice.

#### 2.6.3 Contract request

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A contract sverlangening by the AG by months6 contract term is possible.

This extension can be called **maximum** 6 times. Details will be defined in advance (at least one month3 before the end of the contract).

A fundamental right of the employee to object is excluded.

Cyber Securit y2Requirements (CSGA)

Con zern-Grunda nfordenmgen Softvvare (KGAS)

Requirements for UNECE: UNR 155 CSMS as well as UNR SUMS156

Specifications of the IEU-DGSVO as well as the BDSG

2.7 Railmen's terms and conditions. Standards, t ectmische eitlinien, Betriebsmitt elvorschrift en etc.

The Contractor shall ensure that it is always aware of and complies with the current and valid versions of the Client's data protection and IT security regulations and, in particular, other special regulations (e.g., compliance requirements), including the following

# 2.8 Service provision

The scope of services is usually performed remotely in the Contractor's premises, therefore there is no binding definition of the place of performance. The Client shall not make any premises available to the Contractor. Exceptions to this are the Oti ergangsphasen and Planned pre 20rt 2dates.

On-site2 meetings will usually take place in Ingolstadt at the AG's premises; participation via the AG's telecommunication solution (Microsoft Teams) is possible by priorarrangement with the AG. Appointments at other locations at the AG's request are not excluded.

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When selecting the placeofperformance, the Contractor must comply with the applicable data protection direct ives and

-and ensure that it does not suffer any disadvantages and that it does not

The paceofperformance shall not be located in any unsafe third country (as defined in the GDPR).

The access rights to the systems of the AG required for the performance of the services shall be granted to the required extent prior to the project by the start of the project. The Contractor shall, in principle, perform the services using its own work equipment and materials. The use of the Client's work equipment and materials shall in principle be subject to a fee, unless otherwise agreed.

In their correspondence with the Client, the Contractor's personnel shall always indicate that 'they are acting on behalf of the Client on the basis of a contractual relationship between the Contractor and the Client.

## 2.8. "1Location of the Contractor

The Contractor shall provide suitable premises (e.g. co-location) within a radius of max. 100 km around Ingo Ist adt for meetings with the Client. The Contractor shall provide information on this in its bid.

#### 3 General order contents

3." 16eltungsbereich, conclusion of contract

.. Contract

Contractual provisions are all regulations between the Customer and the Supplier, whether in the contract for performance itself or in documents, ..., which, are directly or indirectly referred to in the contract.

The conclusion of the contract C!lber the performance shall take place within the framework of the procurement process of the ie. it with white the contract shall be concluded within the framework of the procurement process of Volkswagen AG; any reference to Volkswagen AG shall be understood as a reference to CARIAD SE.

The nature and scope of performance as part of the contractual provisions shall be governed by these specifications, unless a contract is individually negotiated and subject to deviating provisions in the contract.

The rights and obligations of the - from the general legal provisions shall remain unaffected unless otherwise agreed .

Alie Rschte vonbeh alten. Disclosure or distribution without the prior consent of the department.

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nd satzlioh Obert he zust1:indlge

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3.2 Verarrtwortung, rmationspflichten und Zommunity

The Contractor shall provide its services independently, on its own responsibility, in relation to results and exclusively with its own qualified personnel. The AIN shall provide services in accordance with the current state of science and technology and in accordance with the principles of proper professional practice, including documentation.

Any technical, professional or other requirements of the Client shall not release the Contractor from its obligation and responsibility for the complete and faultless performance of its services. The Contractor shall be permitted, in coordination with the Client, to involve subcontractors in the performance of the services.

The Contractor undertakes to train its employees in accordance with the currentstate of the art and the

applicable regulations and standards **for** the performance of the activities agreed in the order on high-voltage vehicles. Furthermore, at the request of the The above-mentioned qualifications must be proven by a completely body.

r the implementation of the H. itigke it betriffl the working on H:lc two lttahr2eug en

No performance of the activities on high-voltage vehicles.

The employees employed by the Contractor shall be subject solely to the Contractor's right to issue instructions. The Contractor shall ensure that the right to issue instructions is exercised exclusively by the Contractor.

Coordination meetings on the content and implementation of the service provisiontake1. place at regular intervals between the contract partners' IC coordinators.

Question11 of contract performance and service delivery sirid in principle.

aussc hlieficti5/ by the respective coordinators

zw. t he contract partners to clarify.

The Client shall agree with the Contractor's coordinator of the specifics and requirements regarding the services to be provided. 5111.

# 3.3 PERFORMANCEDEADLINES

The agreed performance deadlines and time schedules are binding. These schedules include end dates and, if applicable, intermediate dates; they can only be agreed in writing. and be senned in an agreeable manner.

3.L1 Other of the Leis tung

The written agreement must contain statements on the following points: Description of the scope of services. The scope of the work (with a written calculation of any increases or decreases). Time schedules and deadlines as well as other contractual regulations, if applicable.

#### 3.5 New requirements

Alie Rschte vonbeh alten. Disclosure or transfer without the prior consent of the department of the Volk swag@n Akti enges@llsc haft ....e.blolen. Vern agspartnsr @mailtm d1 it Dakum@nt g ndsatzlioh Ober t he zust1:ind ge Procurement Abteling.

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The AG plans to continuously optimize and expand its overall service and, as a result, its service architecture as well as its processes and procedures. This is done within the normal framework of service optimization and further development.

New requirements are understood to be, for example, major strat egic changes as well as complex new service iles and ausrictitions

This may result in new service requirements or new services, e.g., new products or new services. B. Addition of new platforms and fundamentally new technologies.

The Contractor must be in a position to monitor and implement these continuous improvements and expansions. The agreement of new requirements 1.md services takes place within the change cont rol process.

The structure or parameters of the pricing model are changed or the service descriptions are changed1.

When changes are made to the Service Level

Management or Ref eren z User St ories.

The change control procedure applies to the agreement of new services as well as in **all** other cases in which the contract prescribes the use of the change control procedure. e.g. i..venn

The change control procedure does not apply to the

- when adding or deregistering data files
- in case of adjustments as described in chapter xx

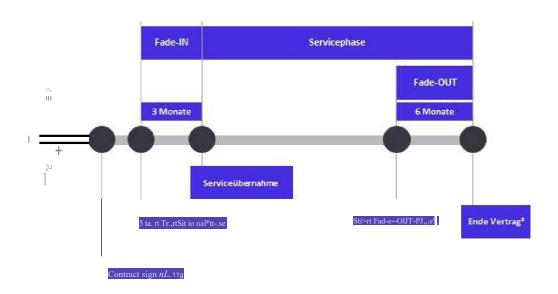
The change control procedure is initiated by one party submitting an amendment request. Each party will process a change request of the other party without delay. The change control procedure ends in the event of agreement between the parties.

The change control process is designed by mutual agreement within the framework of the fade-in phase.

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### 3.6 Obergan g phases

Transition phases11 are periods of time that occur before the actual contract period and at the end of the contract period. The services to **be** rendered in the transitional phases are The services are complementary to the service, which is the actual content of the contract.



"İmfalle -ein e.r Verträgsve,ri-angen r <1: ve r,ii, hiebt sim di i கிe--OVT-Phhase urtddilis Ve:rt ra,g£e nd கிP"- e<ihe nd na ch int en .

### Fig fl du ng Obe10 rgangsphasen

The time ra1Jm var of the actual start of the contract is the Fade-IN phase. The Fade-IN Ph ase di-ent to this; all necessary preparatory act ivit at ions, dle are necessary for a safe and st abile operation. The Contractor shall, in particular, also assist in the adaptation and implementation of the Customer's tools in its service and support systems.

Support organizat ion to plan for and take into account the necessary coordination and change processes at the AG.

At the end of the contract period, the fade-out phase begins in addition to the SLA-compliant operation. In the Fade-OU phase, knowledge is transferred and documents and descriptions (service documentation) are handed over from the Contractor to the Client. In principle, the client can also define a third party as the recipient of data and information.

The Contractor shall in any case be obliged to provide both the Client and a third party named by the Client with the necessary information 111 regarding the definition of these specifications.

handed over.

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# 3.6:1Fade-INphase

At the start of this phase, the Client shall provide the Contractor with the detailed in processes in the context of this paramedescription, which the Contractor must establish and ratify within the framework of the aspect description. Furthermore, the Contractor must include and further detail this in its operating documentation.

In the Fade-IN phase, the CO shall fully develop this service organization. Sle must, at the end of the aspectiRA1Xt1K11(M riff befff in a position to method contractually agreed service level.

I performance This 11 phase also includes, in particular, the qualification and training of the personnel hired.

The activities described in this manual require an implementation of the topics and processes and a training of the Contractor. In addition to knowledge of the products and systems used by the AG2, familiarization with the configurations and processes is required.

For this purpose, the Contractor must prepare a Transit ion Plsn that ensures the acceptance/transfer of responsibility.

In transit ion, t he AN . a. implements t he following goals

- All organizational measures such as access authorizations
- Establishment of lability of all employees of the Contractor to work in this trade.
- Document ation sighted
- Service level measurement etab' lie r
- Forldlert reportin g set up and established
- Knowledge sheet form
- Documentations into a knowledge platf orm Whether erfCihrt
- Orga-n sation st rnkt ur etab lished
- Processes imp lemernt ized and operationalized
- Organization and resoccupied. et ablated and dokume ntiet
- Workshops with the handing over authorities in the premises of the AG.

#### Definit iori of the abrectm ent process

 Acknowledgment of responsibility 1.1 for all contents in the body of this service description.

The Contractor shall be solely responsible for the detailed planning and implementation of the fade -Ai;rolki (M ,9;1within the specified illiperiod. The Client shall support the Contractor in this respect.

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Only when the above-mentioned points and defined milestones of the 'Transit ion Plan have been implemented successfully from the point of view of the AG, the serviceijbemahme can take place.

After an initial training phase, the Contractor is expected to relieve the Client's or the previous Contractor's personnel in regular operation early in the fade-in phase after four weeks. The personnel capacity freed up by the Employer or the former Contractor is to be used for the transfer of personnel from the Employer or the former Contractor to the Contractor.

# 3..61.1 Cr ft ish M eiJenst a innerhafb the fad e-IN phase.

This chapt er contains the qualitative description of the critical mileage strates as well as some acceptance criteria. The Contractor shall, in the context of transition, meet wenere quality criteria.

The AG reserves the right to change critical milestones within ten (10) months.

The Contractor shall inspect the work days. If the Client rejects the critical milestones, it shall provide the Contractor with a list of identified defects. The Contractor shall remedy these deficiencies before acceptance. If the Contractor re-releases the critical milestones for acceptance, the Client shall have an additional (10) working days available for inspection and acceptance. This process is repeated until the critical milestones have been released by the CL.

# 3.6.11: 1Conduct ion of Transit ion Workshops

The Contractor conducts workshops on the speci cation of technical and procedural organ isst oric requirem ents. The first initialle t ransition workshop must take place no later t14 han the signing of the contract.

Acceptance cr it eria

Workshops d11Jrc/hgefu ht

### 3.6.1.1.2 Termi ng completion of the det ailed Transition Plan

The Contractor shall develop and implement a detailed Transirtion Plan to be approved by the Client. On the basis of this detailed Transirtion Plan, the Contractor shall undertake to implement the Trans ition of 11 all affected services.

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The description of the **tansi**1.on and the corresponding det ailliee1 plan shall be submitted to the AG in close coordination with the AG before the end of two weeks after the start of the transiti on.

update and transmit in a format approved by the AG to the AG for approval.

The results of the transition workshops are continuously summarized and kept up to date by the CO in the Transition Plan11.

The Transirtion Plall encompasses all crit ical milestones, o rgan isat or issues, all expiries and result11s of migrat ion.

The Transit ion Plan includes all cr itical milestones, organizational issues and all migration processes. These are planned and described both chronologically and i11h altically.

The detailed transition plan was drawn up by the Contractor and agreed with the Client

llatedTransition Plan

36 6.11.3 Completion of the acceptance criteria for the critical milestones on schedule.

The Contractor shall submit the acceptance criteria for the critical milestones to the Client for approval. The description of the acceptance criteria shall be **Submitted** in the Trans it ion Plan before the end of two weeks after the start of the trans ition in a timely format to the CL **for** approval.

llatedTransition Plan

- For each critical milestone, a written result would be determined that meets (at a minimum) the appropriate acceptance criteria.
- The acceptance procedure for the critical milestones was specified and recorded.
- A person responsible for acceptance has been defined for each critical milestone. The transition manager is responsible for coordinating the acceptance process.
- For each critical milestone, a transfer date has been communicated to the person responsible for the acceptance test, the date of which is is correspondingly earlier than the target date, in order to allow a check by the person responsible for the acceptance test.

enable.

This result was accepted by the AG.

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3. 6.11 LITimely availability of governance and service management organization for service delivery already in transition

The Contractor shall ensure that the governance and service management organization for the Delivery is already established and available in the Transition by the date agreed with the Customer in accordance with the Transition Plan.

For this purpose, the Contractor is required to submit correctly completed applications for the accesses (contractor passes) and accesses/authorizations for tools/systems required for the performance of the services to the Client for approval in good time, at the latest H days after the award of the contract.

The defined roles and responsibilities of the CO are filled and trained for the framework conditions at the AG.

The required meetings and committees have been clearly detailed and described in terms of their composition, purpose, agenda and responsibilities. The f ormers are known and have been informed about their roles and responsibilities.

Responsibilities info rmated.

Requests for the necessary accesses for the provision of services (external company IDs') and access/authorizations for tools/systems have been received by the customer within the specified time.

llatedTransition Plan

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3.6.115 Impelment ation of the escalation proce dure to be observed 11

The Contractor shall ensure that it has implemented the agreed escalation procedures in its process shop.

The escalation process for the transition as well as for the service delivery is defined in writing.

The rolls involved are provided with Pernone11.

The documention of the escalation process was made available to the persons involved.

Stakeholder consent was obtained. llatedTransition Plan

# 3.6 . i .1.6K11owledge Transfer Checklist e created per Bereicll

The Contractor shall provide the Client with an up-to-date checklist of the knowledge transfer activities and results planned and required by the Contractor.

The checklist must plan (include t also include a schedule), support and document the knowledge transfer for each trade and process 2.3.

llatedTransition Plan

The Knowledge Trsnsf er-li ste was agreed with the AG and the previous service providers and are available to them.

# 3.6. ti.6.1Preparation of the DevOps concept

The CO prepares a detailed DevOps com:pt.

llatedTransition Plan

The DevOps concept was created and agreed with the AG.

voted.

# 3.6.i. 1.7 Finishing End-to-End Comment

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The Contractor shall establish an end-to-end2 plan for measuring end-to-end responsibility and generating and tracking notifications of any failures so that end-to-end responsibility is martined and end-to-end availability can be restored as quickly as possible. The concept must describe how the Contractor can coordinate and control disruptions that are outside its responsibility but that affect the customer experience.

The end-to-end com:ept must be implemented by the end of the fade-IN phase. IlierteTransition

Plan

The end-to-end concept was prepared on time and agreed with A:G.

- CfJJI-ooU3il:-tt.rtfli', Mdufil;;hF1
- 3. 6.1.1.8 Timely integration of service processes

The Contractor shall ensure that it has completed the integration of the AG service process and procedures into its process landscape.

llatedTransition Plan

- Serviceprnzesseimpleme111ti ert, documented and accepted
- 3.6.1.1.9 Deadline fair delivery of the conze ptle£ Test frameworks

The Contractor shall submit to the Client a concept for the test framework to be created in terms of architecture and synergies based on the tools awarded by the Client no later than LJ weeks after the contract has been awarded.

llatedTransition Plan

A detailed plan for the realization of the concept, including a defined schedule and milestones, must be presented to the customer at the latest 14 days after the concept has been approved at the test frame meeting.

31 1:10 Development Service Report ing

The Contractor shall ensure that all required ports are implemented and reported in a format according to the Client's specifications.

llatedTransition Plan

- Alie relevant service levels have a coordinated reporting format.
- The performance2 acceptance documents I/Irurden created and coordinated
- The persons entitled t o t he t rial , those responsible for t he process and t he parties involved have been named.
- Possible prac tices and additions to the service levels were set out in a document.

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## 3. 6.11 document 11 atiorn ve rvollstandigrt

The Contractor shall ensure that all documents (including knowledge management entries) in the "d¥1.ws" manual are complete in accordance with the Client's instructions and are handed over to the Client.

The doc ument ation stru cture was created by the CO during the transition and released by the CO.

The location of the document atiorn has been defined.

Tem plat es were created by t he CO and approved by t he AG. 11. gaps in t he docum ent at ion were closed by t he CO and existing docum ent at ion was updated.

The documentation is complete and has been approved by the AG.

The provision and maintenance of the knowledge2 management entry si d is carried out in accordance with the Transition Plan.

### 3.6.1.1.12 Deadline-fair Implementation of the service dearing reporting

The Contractor shall ensure that all required and necessary financial reports as implemented and reported in a format according to the Client's specifications11.

#### llatedTransition Plan

- Alie relevant financial msnagement 2B ericht e.
- Descriptions of reports have a specific report form.
- In case of ambiguity11 or vagueness in the procedure of measurement or determination of cier values, a written explanation is available in a central document.
- 3.6 "1 . "1 "1 2D ocumentation completed
- The signat urees entitled urid accept ance representatives were named.

## 3.6. 1t1 3Agreed transition of the service

The Contractor shall ensure that, in accordance with the agreed Transit ion Plan, all the contents of the Fade-IN Phase have been fulfilled, i.e., the strategic milestones as well as all the activities to be performed within the Fade-IN Phase and that the Transit ion is completed time. the Fade-IN phase and the transit ion is completed within the specified time.

llatedTransition Plan

The transition was successfully **completed**, i.e. all the fades inside the fade...

The tasks to be performed in the first phase have been completed and successfully concluded.

3.6.2 -. -"; --- o u T utii!d,Q1:ii 1m

Six m onths before the end of the contract, the Contractor's termination service begins. In the last three months of the contract period, the Contractor shall work together with the successor2 service provider appointed by the Centinorder to ensure the smooth continuation of the service provision on the basis of the contract.

to support them. This only applies if the extension is not on a new contract basis.

The Contractor **shall be responsible for** the pma ctive cooperation in the fade-out phase of the termination service, including the know-how transfer and parallel service.2' - transfer and the parallel service.

The new Contractor shall be trained by the Contractor in accordance with a schedule to be agreed in advance between the Client, the Contractor and the new Contractor. This schedule shall be drawn up by the Contractor by the start of the fade-out phase at the latest and shall be agreed with the Client and/or the new service provider.

The bish er ANis expected to provide terminat ion lea sures. These include:



- Collaborat ion in t he t akeover project and part icipat ion in t he developm ent of t he t akeover plan
  - o Provision of the necessary resources oOverview of the complete documentations
- NacII documentation in case of incomplete, fe III,ening, non t -ac t tue lerand/or Documentation error
  - o Support during the transfer of responsibility to the new service manager or the employer.
  - o Handover of ongoing tasks and projects to the new service provider or the AG
  - o Joint definftlon of a ;;Fro zsn" zone for the start of new projects with the A:G
- Mapping of t echnical intersections, if required a Migration of dat a/ dat a unificat ion
- Knowledge transfer to the follow-up service, if required also through the
- Work -Shad owings
- Employees of the future service provider acquire the necessary knowledge
- The Contractor's employees must accompany the Contractor's employees during the performance of the service. The Contractor's employees must carry out their activities

and will be available to answer questions.

Reverse-ShadOWInQ

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- In this case, employees of the future service provider carry out the service provision activities, while employees of the Contractor support them, intervene with corrective measures 11 and are available to answer questions.
  - Workshops
  - Support of prnbela1Jfe n of t he successor service provider All other activities that are necessary for the successor to be able to take over Se r vice in glethe quality control.2

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# 3.6.3 Transition Manager

The Transi ion M anager is a role limited t o t he duration of t he Fade-IN unci -OUT phase. He is responsible for t he aspective IN uno -OUT phase of t he transi t ion and controls all The Contractor shall inform the Customer of all activities of the Contractor which are necessary to perform the Service. Furthermore, he ist responsible for informing the Client.

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The role must be named. The role may not be changed without a compelling reason. The Transit ion M anage r is responsible until the fade I 1-1-? hase in the Regelsmvice including the coordination of the bese, it ure of mangles fost ered at the time of the time.

#### 3.7 Seirvice level

The table attached as Annex I contains all the valid targets

service provision. The target values to be achieved are named "Expect ed

Service Levels

""

The Contractor must take all possible measures to meet **the** service level requirements. To this end, the Contractor must also ensure that the service **level requirements** are measured in a verifiable manner and must submit this to the Client. This will be done both in a planned manner at regular intervals in meetings and reports and in an unplanned manner at the Client's request.

Data procurement, data consolidation, key figure mirtl ung,

The Contractor shall be responsible for the

- Reporting,
- Mar3.n ahmenent wick lung and
- Archivng

of key figures and their results on the basis of the service **team** defined below. -Specifications. The exact measuring method and measuring points are defined jointly between the customer and the contractor in the FadeN2 phase and documented by the contractor.

All Kerm figures are to be presented in the Serv ice Rev iew Report2. The Contractor shall prepare the contents, the form and the layout of the report as a report template and submit it to the Client for review. After approval of the template by the Client, the Contractor shall implement the report and make it available in the defined III In t erval!

The Customer reserves the right to amend the service level11 requirements in consultation with the Contractor.

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#### 3.7.1 Times

The definition of the .times forms the framework for service provision and the measurement of the key figures. muring the times, the technical and personnel availability must be ensured.

A deputy rule filt the personnel availability in case of vacation, sickness Efflif's'-Further downtime must be ensured.

Measuring object	Definrl:ion	Service Leve I
System time (technical)	The system time is t he t im e in which t he technical comporat ions and syst ems are filable um:I t he perform ance o bjects of t he ser,,ice,	Mon - Sun van 00 00 to 24:00 o'clock inclll. Sunday - and egg days
Service time {persanelO	In the service time, all activities and service levels from the processes are to be ensured11, three service times are valid for all activities of the described process. The scope of services of the Contractor.	Mon - Sun van 00 00to 24:00 clock incll. Sundays and holidays

Table 36 times

Working days are defined as Monday to Friday excluding public holidays.

# 3.7.2 Critical Service Levels (KSL) and Key Measurements (KM)

The AG distinguishes between Critical Service Levels (KSL) and Key Measurements (KM). Critical Service Levels (KSL) are service levels for which Service Level Credits (Ponals) can be agreed.

Key M easurement s (KMs) are service levels for which no service level credit is due, but which are important for the business processes of the AG.

If the defined target values of one or more KSL are not achieved, the Contractor shall immediately define and implement measures to remedy the deficiency. For this purpose, the Contractor shall without delay define and implement one or more integrated projects.

o⊩: with the aim of identifying the causes of the

Oberschreitung to identify and develop a plan for how these №1 es will be provided.

Expenditures for these projects are to be borne by Azu . The projects must not result in any capacity bottlenecks that affect the regular service and are related to the implementation of these projects.

The results of the project planning are to be presented to the AG in en tly convened meetings. to 11Jnt e rbreiten.

The measures must be implemented by the Contractor within a maximum of a further four weeks in order to return to the agreed service quality. As a result, the implementation of the measures must again comply with official service levels.

If, despite the Contractor's taking of measures, the K,riti s Service Levels are not complied with, the Client may arrange for the Contractor to pay a penalty (so-called "Service Level Cred it s"). The exact amount of the penalty is determined for each Service Level Requirement (KSL). However, the amount of all penalties does not exceed sis %8 of the amount specified in the service level agreement.

The amounts reported for the month under review are shown in the table below.

During the term of the Contract, AG may change the classification of Critical Service Levels and Key Measurements. This may occur, for example, in connection with changes in the environment of the Services, the introduction of new equipment, new software or new procedures for the Services.

### 3.7.3 Whether revealed ag

The active measurement of the agreed service level takes place from the date of handover. The day of the transfer is the day on which the Contractor assumes full responsibility for the services described in the Contract.

The upper day is dependent on the Fade-IN phase and is set there.

The CO has to establishand pilot the measurement of the service level and the report ing 'already in the fability phase.

# 3.8 Strapping

The services are paid for according to a payment schedule fixed at the beginning of the contract, taking into account 1milestones or service segments.

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The order value shall include all additional costs. Likewise, all expenses and costs which are not expressly incurred by the Customer shall be borne by the Contractor and shall be included in the agreed price. Travel times, travel costs and ancillary costs shall only be paid by the Contractor.

if this has been expressly agreed upon:

In the event of a reduction in performance by the Employer, the Employer shall not be entitled to receive the entire amount of the no1 mized contract (e.g. due to project termination).

the service m aaG of this service description,

- o any additional integrated projects requested,
- other additional services (which are not part of the contracted services) and the dmchfOrming of the transiOns (fsde-In ph ase; terminaliOns).

This chapter regulates the obligations of the AG to the AIN for the

Lump sum compensation Compensation by piece Compensation by time expenditure

The remuneration to be paid as well as the related performance, invoicing and other duties related to the remuneration:

With this price model and the therein defined amount of the remuneration to be paid, the official services agreed upon between the Client and the Contractor are settled.

3.8:1Price mod !ell

1.m different types of price items are defined (see Appendix J)

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Unless otherwise requested by the customer, prices shall always be quotedin in euros and in R-ectmung. The price quotations are in each case net without VAT.

The offer prices are to be entered by the Contractor in the Appendix J. Any changes in the versioning shall always be made known. Only a fully completed price table shall be considered valid and shall be accepted as an offer. No other price information will be accepted. skzep tized.

The price list winclude all work performed for the ordered services as well as any graded assistance 11 provided by the Contractor.

The Contractor shall in principle ensure that there is no "..mixing" ("cross-linking") between the individual price items and that no payment is made above and beyond the items defined in the price table. If the Contractor is of the opinion that items in the price table are missing from the load11l1eft, he shall point this out17 before the start of the contract when submitting his offer.

In Annex J, the cells marked in yellow are to be filled in by the Contractor. The structure and format of Appendix J may not be changed by the Contractor.

## 3.8.2 Price pos'ions

The following chapters describe the different price positions of the system.

With the exception of the daily rates, RUS prices and the costs of the transition phases defined in the "Integrated Projects" tab, all price lensfor the two companies MBB 1.52 WebCen t er and ODP -1.0 Public Cloud to bep lished separately.

Furthermore, the prices for the regular contract period as well as for the contract extension must be stated.

The commissioned and invoiced price items are in agreement.

The prices charged for a position are in accordance with the version of the price table.

Each service is charged only eimal in Rectmung

When calculating the monthly invoice amount, the Contractor must check and observe the following rules:

Die definierten Meetings, Rollen und Berichte sind in die Preise einzukalkulieren und werden dem AN nicht separat vergütet.
Alle Rechte vorbehalten. Weitergabe oder Vervielfältigung ohne vorherige schriftliche Zustimmung des Fachbereiches der

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# 3.8.2.1 Development and Testing

The pricing model is mapped via the "..Reference User Stories" (RUS). The RUS are described in more detail in Appendix P.. "Reference User Stories".

By de111 AN sidff the RU S with alien lei.stunities as in the chapters ... Development" and T esting" described in the price sheet.

The CRs/features are divided into individual user stories in the Story Bre akdown. The user stories are to be assigned to the RUS by the wall and released by the AG. The Contractor shall be invoiced on the basis of the negotiated prices of the respective RUs.

# example of billing:

A new feature is w4mprovided and produced in the Stor y Breakdown with two user stories of TYPE RUS1 and five user stories of TYPE RUS6. The total price is then calculated as follows

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(2 prize RUS1) + (5 prize RUS6)

The customer has the option to make adjustments to the reference user stories during the course of the contract, e.g. changes, amendments and additions.

Payment to the Contractor shall be made in the form of installment payments:

0 % after functional acceptance %50 after final acceptance

# 3.8.2.2 Software maintenance (LCM)

The services and expenses of the software maintenance (LCM) shall be paid to the Contractor as a pause hal monthly service. The lump sum monthly payment does not refer to a single service, but to the sum of all services.

The lump sum shall include <u>all expenses of</u> the Contractor which are necessary to perform the services described in chapter "Software Maintenance (LCM)" and in chapter "0b ergreifende Last- undPerformancetest",

# 3.8.2.3 Operations and Support

The services and expenses for operations and support are recognized as a lump sum. The monthly benefit is paid to the employee. The total monthly benefit does not refer to a single service, but to the sum of all services.

to provide the wle services described in chapter ., Operations and Support".

## 3.8.2.4 4 Major Releases

Major releases (cf. chapter2.3.3.3 . 1) are noticeable changes for vehicle owners and therefore require precise planning. This planning, as well as the implementation (incl. pre- and post-processing), is remunerated by a single fee.

The actual deployment of the major releases takes place within the framework of sprints and is charged to the contractor.

## 3.8.2.5 Integrated projects

A "budget framework" with a defined euro amount is agreed upon, which assures the customer the provision of services and corresponding skills worth this amount by the contractor.

The budget s h a I I be kept as a ".,person day con tent" and shall cover the services in integrated projects. The Contractor must submit a separate offer to the Client for each integrated project. The preparation of these offers is free of charge for the Client.

The monthly payment shall be made on the basis of the daily rates actually charged or the corresponding price volume for the period of performance (month). The valid daily rates for billing are to be stored in the attachment Jim Re gister "In t e grated ProJects".

The Contractor must immer have all day rate positions2 and the associatedSkills ready. It is not permissible tolimit individual positions to a maximum number.

## 3.8.2.6 Transition phases

The transitional phases include the activities to be performed at the beginning of the contract in the fade-in phase and the activities to be performed at the end of the contract in the fade-out phase. As well as the performance s, the price s for the phase11 must also be iunt ered. The basic focal tasks in the phases are described in the chapter ",,Transition Phases".

The lump sums shall include <u>all expenses of the Contractor which</u> are necessary to perform the services described in the chapter "Transition Phases".

# 3.8.3 Other prices

#### 3.8.3 . 1 Mehrautvvande

Additional expenses may only be reimbursed in exceptional cases if they are not attributable to the Contractor. An incorrect estimation of expenses by the Contractor shall in no case justify a subsequent claim for additional expenses. If additional expenses arise for which the Client is responsible, the Contractor must provide a credible explanation and report them as early as possible.

#### 3.8.3.2 Other costs and additional costs

Travel and incidental expenses as well as other costs shall not be reimbursed and shall be included in the price of the flat-rate service. Further regulations in this regard are contained in the

The following table shows the travel cost guidelines for the Group.

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# 3.8.4 Quantities

The following table is intended to serve as a guide for the AN's price calculation. The quantities indicated are only scti at.zg r6ben; they do not include any

The customer is responsible for the acceptance.

Restriction	Reference period	Number/ St uc k
I ic ket s  -  Ii w idents  roblerns  tvl.  silg  KPM  Service Req uest s	12 Mo11a t e	Service Req approx. month: 150 Incidents; approx. month: 650 II n cid ent :t: ca. M onth: Prob1.500!em s;:i: ca. M o n at Rrob70 Iam Task s¹: ca. Month: SD If JM I ickets approx. year 250
Entwioklungst eams C re (excl. scope Test ing uncJ Op erat ions)	-	12 I eamfl
Developmen t ea ms CAR2X  LI <::IOperationsj :Jp erat ions)	-	ъI Ell, m g
Other service e	-	:2 I ear1&

T abelle37 tvlen g en

# 3.8.5 Proof of performance. Legal and case law

The Contractor shall record the services rendered by it on a monthly basis using the billing process to be defined in Fade I .... The Contractor shall record the services rendered by him on a monthly basis using the accounting process to be defined in the Fade I ....

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- , incidents, which are generated as event s .a u:s elem mon itoring.
  - :; Problems responsible to the AN
  - Assistance with problems that are not the responsibility of the employee.

For this purpose, the Contractor shall implement a standardized Finance and Order Management system which shall control all commercial processes from the 8 stylear planning to the invoicing inaccordance with the agreed price model. The commissioning shall be carried out exclusively by the Client's departments in charge of the contract.

The Client shall internally check the respective performance record and, if it does not have any If the Client has any objections, he shall notify the Contractor thereof and give him the opportunity to rectify the affected part of the proof of performance. After release of the statement of work by the Client, the Contractor shall invoice for the amount submitted in advance (as a total amount).

The Contractor shall only be reimbursed for services called off by the Client as defined in sets "Call-off and invoicing of services".

Amounts invoiced in accordance with the rules 3 shall be paid by the AG by 25. (twenty-fifth) calendar day of the month following receipt of the invoice.

The Client shall be entitled. The CL shall be entitled to refuse payment limits or to demand repayment of payments already made or to set them off against future invoices if an invoice from the CO does not comply with the requirements. The Client shall notify the Contractor thereof without delay and shall give the Contractor the opportunity to correct the invoice in such a way that it is in conformity with the contract The Client's payment obligation shall only arise in each case if a correct invoice has been submitted and this has not been disputed by the Client.

The Contractor shall provide the IT Services in accordance with the provisions of these specifications and shall not be entitled to discontinue the Service or to negatively affect the Client or other service recipients, even if the Client deviates from its obligations. right Gebra1Jcl1 makes.

# 3.9 Proof of performance / acceptance

The Contractor shall indicate completion of the partial or total services defined in these specifications according to milestones in writing at the time of acceptance or by means of corresponding performance records together with the invoice.

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The Customer shall inspect the services after notification of the Completion by the Contractor. The rdlr lll ishall, at the request of the Client and without separate remuneration, submit the services for acceptance.

and submit the necessary performance records and documents. Defects occurring during acceptance shall be recorded.

If there are onlyminor and insignificant defects which only insignificantly impair the intended use, the Customer shall declare acceptance. The Customer shall immediately remedy any deficiencies hindering acceptance and submit its performance for acceptance. The foregoing provisions shall apply mutatis mutandis to a renewed acceptance. The acceptance of partial performances shall not limit the CL to later claim defects in partial performancesalready accepted, insofar as such defects are only remedied by the acceptance procedure. Interaction of Syst em Part s off ered C::::::

# 3.10 General legal relations

With regard to the rights and obligations agreed upon on issues such as e.g., performance disorders, Third party rights, liability and warranty as well as secrecy and data protection are governed by the contractual provisions.

# 3.10.1 6 ewahrleistung 1md Liability

-oolsA.N undertakes to perform the services professionally and carefully. In the event of a breach of this obligation, the following provisions shall apply.

Liability provisions of the contractual re succeeded.

# 3.10.2 Rights third he

With regard to the servicestobe provided by the Contractor, the Contractor shall ensure that the rights of third parties are not inadmissibly infringed. In case of infringement of rights, the contractual provisions shall apply.

# 3.10.3 6 eheimhaltung und Dat ensc II 1Jt z

The services to be rendered under the contract of this AG are subject to secrecy. The contractual provisions shall apply.

#### 3.11 Cancellation

CARIAD SE may terminate the contract at any time with a notice period of weeks2 to the end of a month.

Alie Rschte vonbeh alten. Disclosure or transfer without prior consent of the department of the Volk swag@n Akti enges@llsc haft v@fbol @n. Vern agspartner @malltmdl es Dakum@nt g ndsatzlioh Ober d ie zust1:indlge Beschaff abtellng.

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-ToolsA.N can only give notice of termination with a notice period of 2 weeks to the end of a month if the Client has committed a material breach of contract and this breach of contract has not been remedied even after a written notice of termination and the expiry of a reasonable period of notice. A notice of termination requires the form of a letter.

If the Client should a1.1s a reason for which the Contractor is not responsible, the Contractor shall be entitled to the agreed remuneration for all contractual services which he has rendered up to the end of the contract.

The notice of termination shall be effective for a period of up to one month after the notice of termination has become effective, plus compensation for any costs incurred in preparing personnel and materials.

If the Contractor is responsible for a reason for which the Contractor is liable, the Contractor shall only be entitled to compensation for those parts which 1 are defective. The Contractor shall make full use of the remuneration agreed in the contract for all services recognized as contractual at the time the contract becomes effective.

Further claims of the Contractor shall be excluded in this case. The Client shall be entitled to partial certification.

# 3.12 Language

Oral communication between the Contractor and the Client is generally in German or English.

Written communication between the Contractor and the Client shall be in German or English. This applies to statements, e-mails, ticket s, etc.

The reporting as well as the working and operating documentation is in English.

The AG shall specify the respective language to be used. The offer shall be submitted in German.

## 3.13 Retrieval and Abrectm w1gen of performanCes

The services shall be provided on the basis of the General Terms and Conditions of Purchase for IT Services. If the Bidder has concluded a framework agreement with the Client the provisions of this framework agreement shall apply instead of the General Terms and Conditions of Purchase.

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The call-off of services shall be made exclusively by the Client or by persons authorized by the Client. If orders are placed by third parties (unauthorized persons) or by persons who are not

The Contractor shall not be entitled to any compensation.

## 3.14 Differentiated award of contracts

The contents of this service description may also be contracted out to other service providers or provided by the Client itself without stating reasons. It is then up to the respective service provider to reach an agreement on the defined interfaces that meets the requirements of the overall task.

## 3.15 5 Adjustments

The Client reserves the right to amend the framework conditions and contents of this document:

- Diens te,
- Functionalt ate.
- Themeri or
- Processes
- . More

Customize.

It must be assumed that new aspects will arise during the period of the! It must be assumed that new aspects for processes or techniques, which are not yet or only partially described in this description, will arise during the development period as part of a "normal" technical development, a fundamental change in cycle management or as a result of changes in strategy on the part of the AG.

The tenor of these performance specifications shall remain unchanged notwithstanding

these amendments. The Contractor shall be obligated to make any possible extensions or

additions in the context of this

to be carried along.

## 3.16 6emeinsam e Auttrngsbearirtung

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In the event of overlapping disruptions or ... In the event of "problems", coordination between the various service providers is required. In this case, all service providers involved must deal with the fault until it has been finally resolved. This is irrespective of the area of responsibility in which the actual fault occurred.

In the event of disruptions to the services included in the scope of the order, the Contractor shall assume a coordinating role with the involvement of other service providers. The Contractor must also drive forward the remedial action.

If the malfunction is caused by a third party or an external system, the Contractor shall be responsible for monitoring and, if necessary, escalating the repair of the malfunction until full functionality is restored.

#### 3.17 Remote Access

The Contractor shall be required to present the requirements for access to the remote as well as the necessary bandwidths and policies prior to the signing of the contract.

The specifications and regulations of the Client on remote access shall remain valid. The Contractor shall request the current version of the rules from the Client, view it and use it1.

## 3.18 Access to data and systems

Access to data and systems may only be made with personalized authentication. This applies both to the dial-in of aur&es and to local accesses. The Contractor must ensure this technically and organizationally.

The access is made via online train.ang e, the AG does not provide any external devices (operating media).

The accesses must comply with the relevant data protection and security requirements. The type and scope of the accesses are coordinated in the fade-in phase.

# 3.19 Protocolling of accesses

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The Contractor must record all the actions performed, the time and the name of the user. The logging must be revision

an

d tamperproof. The Contractor must inform the Employer at all times whether he has The following table shows the results of the audit.

The protocols must be archived by the **Contractor** for the entire duration of the contract if no other arrangement has been made in the **Fade I**...'-phase, no other arrangement has been made.

At the end of the contract period or if required, the protocols must be **returned** to the A:G Obe rbe n.

#### 3.20 Commw1ikafionsrnit tel

As a rule, the scope of services shall be provided on a re m ote basis. For this purpose, the Contractor shall provide suitable communication solutions that enable a secure communication between the Contractor and the Client. In this context, the Client expects at least a web conference solution compatible with the Client (Microsoft Office 365).

#### 3.21 Crisis casel

If the Client declares a crisis, the Contractor must be on site with a team capable of action and eritscil eid1Jng, in accordance with the Service Level2 provisions. Participation in crisis elefo n conferences is indispensable until the resources are on site.

This team must be composed of specialists, management and others, depending on the situation. If necessary, a 24/7 crisis team is called in. The aim is to eliminate crises together, quickly and in a targeted manner.

# 3.22 Assistance' of the AG

The Client shall assist the Contractor to the best of its ability in the performance of the agreed services, in particular by providing the Contractor with the necessary support, such as technical or organizational support, to an appropriate extent, and by making available all agreed or in its area of responsibility responsibilities.

This concerns in particular:

- Fremdfirm en identity cards '),
- · Document ation (if available),
- Access to the AG's guidelnes, regulations and instructions
- -) obligatory costs for the contractor

#### 3.23 Assist ance of the ANs.

The Contractor shall be responsible for all necessary equipment, machinery, materials, etc. and for providing and keeping them available. The Contractor shall be responsible for all necessary equipment, machinery, mat erials, auxiliary materials, etc., as well as for providing and keeping them available, which are necessary for the performance of the services.

The Contractor 11warrants that the services provided in this document, including all additional appendices, are fair, quality free, accurate and free from defects in material and workmanship, and that they will be performed in accordance with the instructions of the Contractor.

The work must be carried out in compliance with all guidelines and regulations.

The Contractor shall inform the Client in writing if necessary materials for the service are not included in the defined scope of services. The Contractor shall **quarify**this information by stating the activities and the necessary quantity.

#### 324 Schrirftfo rm

Written form is given if an authorized person signs' a document (transmission as PDF possible). All declarations of intent - such as acceptance, specification of sprints, etc. - must be made in writing. - after this contract, need to be in writing.

## 3.25 Ownership rights of CARIAD SE

All created services, e.g. documents and software as well as source code shall become the property of the Client for unrestricted use, provided that there are no separate license agreements to the contrary.

## 3.26 Sub1.mtem ehmer

The transfer of contractual services to third parties (subcontractors, use of freelancers, etc.) by the Contractor shall require the prior consent of the Contractor.

Pre sentation of the Sub 1 Internehmerand the written consent of the AG. The AG has the right to reject subcontractors.

The intended111 subcontractors and the services to be provided shall be named in the bid submission {Annex E) ZIJ,

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who are also and demonstrably competent, efficient and reliable and who have also undertaken to carry out their work in accordance with the obligations set out in the chapter entitled "Organization", which goes beyond the current version of the Data Protection Act.

The following provisions, in particular also special regularle11 (e. g. The Contractor shall, without the consent of the Client, only use such subcontractors for the performance of services.

compliance requirements) of the AG and also to comply with them accordingly.

- follow.
- which do not come from insecure third countries (gema DSGVO) or act from dart and
- which comply with the service qualities and the service levels defined in this service description 11.md the applicable documents.2
   will comply with specifications.

The Contractor shall continuously monitor compliance with this obligation and document the overruns without fail .

The Contractor undertakes not to prevent its subcontractors from concluding contracts with the Client or a group company11 for services which are not the subject of this contract. This obligation on the part of the Contractor shall also apply to exclusive agreements which could prevent the Client, the group company or the subcontractor from obtaining services which they require for the performance of such orders.

## 3.27 Manufacturer support

The customer shall ensure that all systems and equipment required for the provision of the service are maintained/supported by the respective manufacturer. The systems used may not be used as end o lif end. The Contractor must conclude the necessary agreements with the manufacturers. The Contractor must inform the Client in good time if these agreements need to be extended or adapted.

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Unabhängig von den konkreten Supportvereinbarungen und von der Art der Beistellung erwartet der AG Fachwissen und Zertifizierungen, die es dem AN ermöglichen, die Supportvereinbarungen im Kontext dieses

# 4 Allgemeines

# 4.1 Definitionen, Begriffe, Abkürzungen

# 4.2 Sonstige Unterlagen

Der AG stellt dem AN die zur Vertragserfüllung notwendigen bereichsinternen Absprachedokumente / Methoden- und Prozessbeschreibungen in der jeweils gültigen Version zur Verfügung bzw. stellt sicher, dass diese beim AG eingesehen werden können.

Für Prüfstandsumfänge ist seitens des ANs gegenüber dem AG eine Zertifizierung nach ISO 17025 nachzuweisen.

#### 4.3 Software

Beinhalten die im Lastenheft angeforderten Leistungen Komplett- oder Teilumfänge für die Entwicklung von fahrzeugbezogener Software, d. h. Software, die einen Einfluss auf das Fahrzeug und seine Funktionalitäten hat, sind die in diesem Kapitel mitgeltenden Unterlagen verpflichtend.

- The order includes complete or partial scopes for the development of vehicle-related software.
- The order does not include complete or partial scopes for the development of vehicle-related software.

## 4.4 Besondere Merkmale

Sind besondere Merkmale gemäß VDA Band "Produktentstehung "Prozess Besondere Merkmale (BM)" Bestandteile des beauftragten Umfangs oder ist der Umfang durch den mels relevant für Besondere Merkmale gekennzeichnet, so verpflichtet sich der Richtlinien der Konzern Grundanforderungen Software (KGAS), des LAH.893.909.C Besondere Merkmale undder Formel Q-Fähigkeit Software (in der aktuellen Version in Group Supply verfügbar) bei der Auftragserfüllung anzuwenden bzw. sicherzustellen und einzuhalten.

- The assignment is relevant for Special Features
- The assignment is not relevant for Special Features

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# LJ.5Processing of personal data

If the Contractor processes personal data for, together with or from CARIAD SE, a separate data protectionagreement11 may be required in accordance with the German Data ProtectionAct. The data protection regulation (GDPR) must be complied with. This is determined by whether there is order processing, joint responsibility or separate responsibility.

The relationship between CARIAD SE and the AN was audited UIJ71d e 11t speaks eirn er;

# \*\*Order processing (Volkwagen AG is the client) rCommon responsibility

rSeparate responsibility

# rIs not required

In the case of contractual processing, the conclusion of a so-called agreement on contractual processing is mandatory pursuant to Art. 28 of the GDPR. in which the object and duration of the processing, the nature and purpose of the processing, the nature of the personal data, the categories of persons concerned and the obligations and conditions of the processing shall be specified.

The rights of the responsible person are to be determined. The draft contract for this will be issued by-. -

he draft contract for this purpose will be made available by the - .

If, in the course of processing the order, personal data are processed by the Contractor which require a higher degree of protection, the Contractor shall, at the request of the Client, have an evaluation of its technical and organizational measures carried out at its expense in accordance with TISAX. It is to be noted that the \$cope" of the

Certification corresponds to the specific service and the certification fulfills the pr(If objective. Det (in the case of processing of special categories of personal data, the "Special Data" checkpoint,,).

In the case of joint responsibility of ½ n d AN for the processing of personal data, an agreement on joint responsibility shall be concluded. IndAN for the processing of personal data, an agreement on joint responsibility is required.

(eng I. Joint Cornt r o I Agree ment abbreviated.. to JC.Au) is required in accordance with Article DSGVO26, in de r in

In particular, the respective duties of the obligated parties with regard to the rights of the persons concerned shall be regulated and documented in a transparent form. The contract template for this shall be provided by the Client.

Alie Rschte vonbeh alten. Disclosure or transfer without the prior consent of the specialist department.

Volk swag@n Akti enges@llsc haft veJbol en. Vernagspartner @maltm dl it Dakum@nt g ndsatzlioh Ober die zust1:indlge Beschaff abteling.

CAR D SE Volkswage n Group Company

Т

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	Else i g es (s fehe plant)			
4.5. 2	2 Documents to be applied			
issue work: The	r documents as well as the referenced documents of the load booklet.  s with the documents valid forthe specification following documents and standards, which sicularly reviewed:	as sung. The Contractors.		
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# 5 Attachments

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Anlage A\_ Konzern Grundannex Software LAH 893.909 - Version 3.7B

Conclusions to the invitation to tender VIO

Annex C\_Biet erfragenliste\_ VIO

An/age O\_Angebotsfragenliste\_ VIO - wird erst im weiteren Ausschreibungsverlauf erste/lt

Attachment E\_Subcontractor\_ V1.0

Attachment F\_References\_ V1.0

Annex G Grouping of IT Services v2.6 Annex

H\_Reports and Reports\_ VIO

Attachment !\_Se rvice Level Table\_ VIO

Attachment J-L Price Sheet \_Lo

s1Core\_V1.0 Attachment J-2\_Pr eisblatt t\_

Lot2Car2 X \_ V1.0

Annex J-3 Pricesheet Other Services Enabler Services e

Annex K\_Ca tegorization Services \_ VIO

Annex L Servicek onzept VIO Annex

M ransitionkonzept VIO Annex

N DRP Templat e VtO Annex

O Recovery Plan AN V1.0 Annex

P\_ReferenceUserStories\_V1.0

Annex Q\_CARIAD \_Cyber Security Basic Requirements

Appendix R Group Basic Software Requirements LAH - 893.909Version 3.7

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