



# **SAP Enterprise** **Cloud Services**

**ROLES AND RESPONSIBILITIES ("R&R")**

**RISE with SAP S/4HANA Cloud, private edition and SAP ERP, tailored option**

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**FIVE CATEGORIES:** For avoidance of doubt, all of the tasks and services itemized in this Roles & Responsibilities document are provided as a catalog of services. However, the relevance and necessity of each individual task or service will be unique to each customer's Computing Environment. Customers are responsible to review and analyze these tasks and make the selection of such tasks/services in collaboration with an SAP Cloud Architect Advisor ("CAA"), with a SAP Client Delivery Manager ("CDM"), or with the Private Cloud customer center team. Additionally, the availability of a specific service may also be limited for sandbox or other test environments.

<b>Standard Services</b>	All tasks/services that are included as part of the Standard Services, covered by the Service Fee and performed by SAP <sup>2</sup> , as applicable to customer.
<b>Optional Services</b>	Optional Services: these tasks/services are not covered in the Standard Services, and are not and cannot be covered by the Cloud Application Services <sup>1</sup> ("CAS"). These tasks/services <ul style="list-style-type: none"> <li>• may be elected by customer,</li> <li>• are subject to additional service fees,</li> <li>• must be specifically contracted for and itemized in the customer's contract (original contract or via a change request), and</li> </ul>
<b>Additional Service</b>	Additional Service: Include one-off tasks/services which are not covered by Standard, Optional and/or Cloud Application Services. These tasks/services <ul style="list-style-type: none"> <li>• may be elected by customer,</li> <li>• are subject to additional service fees and</li> <li>• can only be performed by SAP<sup>2</sup>.</li> </ul>
<b>SAP Cloud Application Services<sup>1</sup> ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.</b>	Cloud Application Services <sup>1</sup> ("CAS"). Can be performed by customer: Include tasks/services that a customer can perform, but the customer may elect to have SAP <sup>2</sup> to deliver. CAS is subject to additional service fees as agreed in a customer's contract.
<b>Excluded Tasks</b>	Excluded Tasks are those tasks/services that can only be performed by the customer and are excluded from Standard Services, Optional Services, Additional Services and/or Cloud Application Services.

<sup>1</sup> **Cloud Application Services ("CAS")** is a category of supplementary services identified as Cloud Application Services ("CAS") in this document. CAS is subject to additional service fees as agreed in a customer's contract. CAS excludes all services involving the extension, reduction, or change of the customer's existing landscape, e.g. provisioning additional infrastructure resources. SAP may provide CAS services in either proactive or reactive mode. For SAP to provide services in a reactive mode, the customer is required to submit CAS service requests to SAP via the ticketing/service request system made available to customer for such purpose.

<sup>2</sup> The term "**SAP**" when used herein refers to SAP as defined in the customer Order Form, and means either SAP or the relevant SAP third party provider or subcontractor.

Not all tasks or services listed in the R&R are relevant to all customer environments. **Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler).** Certain tasks or services may not be available from SAP or certain SAP third party providers, and may not be available in certain regions. The availability of a specific service may also depend on characteristics of the specific customer situation (e. g. system size, solution scope etc.) and must be individually checked and confirmed with an SAP Cloud Architect Advisor ("CAA"), an SAP Client Delivery Manager ("CDM"), or with the Private Cloud customer center team.

All tasks and work efforts not purchased by customer or not provided SAP as part of the standard service but applicable to customer and its Computing Environment are the responsibility of customer.

The PDF version of this **Roles & Responsibilities** document made available by SAP at <https://www.sap.com/about/agreements/policies/hec-services.html> at is the Documentation of record. Customer acknowledges that a non-pdf version of this Roles & Responsibilities document may be made available for task analysis, task planning and overall customer task management purposes, but such version shall not be considered Documentation.

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
			All task descriptions exclusively refer to the execution of the respective task and are exclusive of potentially required hardware or infrastructure capacities (e.g. compute, storage, network connectivity etc.). Any extension to such entities is required to be processed via a contractual change request (CR) and is subject to additional service fees. Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler). Tasks are applicable only to systems managed by the service provider unless otherwise explicitly noted. The availability of a specific service may also be limited for sandbox or other test environments.	Where indicated, additional process flow information is available for selected services and can be viewed on the <a href="#">SAP Help Portal</a> .	.	.
1		<b>A - Service Management</b>	For accounts delivered by a Premium Partner, certain tasks in chapter "A - Service Management" are a joint effort between SAP and that Premium Partner.		.	.
2		<b>Account Management</b>			.	.
3	SM_1.1.01	Conduct Delivery and Operations Kick-Off -Review Support Manual -Landscape Review and Scope Alignment -Detailed Engagement and Operations Review	Standard Services		n/a	n/a
4	SM_1.1.02	Capacity Management Review: Provide data via report and/or self-service reporting tool for review of systems within landscape, monitoring, and reporting of resource usage (e.g. storage capacity, memory and CPU) to prevent operational issues. Review need for service changes and extensions based on technical resource consumption trends.	Standard Services		n/a	n/a
5	SM_1.1.03	Capacity Management Planning: Provide periodic capacity plan based on technical capacity management review	Standard Services		n/a	n/a
6	SM_1.1.04	System outage notification and escalation management	Standard Services	Handling of critical service situations aiming to bring the service back to targeted quality and standards. Provide Root Cause Analysis (RCA) for production environment(s) only.	n/a	n/a
7	SM_1.1.05	Service Performance Review and Report – Periodic - Provide review and suggestions if a high volume of support requests occurs - Service availability and KPIs	Standard Services		n/a	n/a
8		<b>Service Request Management - Technical Support</b>			.	.
9	SM_1.2.01	Service Request Management: - Create service requests via the service request platform - Update and resend service requests back to service provider via the service request platform when additional customer action/attention/information is required	Excluded Tasks	Change Requests (CR) or Change Orders subject to process defined in Agreement. Service requests which require commercial change requests (CR) or which need to be planned and coordinated are performed during customer business hours only.	n/a	n/a
10	SM_1.2.09	Service Request Management - Receive and acknowledge service requests via the service request platform - Assess criticality/priority of service requests, effort and approvals required - Coordinate request approval - Notify requester of approval or rejection - Coordinate service request scheduling - Notification of service request completion	Standard Services	Provider will address service requests during the hours of operations as defined in the Service Level Agreement. Change Requests (CR) or Change Orders subject to process defined in Agreement. Service requests which require commercial change requests (CR) or which need to be planned and coordinated are performed during customer business hours only.	n/a	n/a
11	SM_1.2.11_AE	Create service plan for reoccurring and proactive CAS tasks / Create and maintain service plan for reoccurring and proactive services	Standard Services	Only applicable if CAS packages are part of the contract.	n/a	n/a
12	SM_1.2.12_AE	Create and maintain release plan for managed landscape	Standard Services	Including check for SAP software updates (SAP Release Version, SAP Support Packages, SAP kernel updates, DB version) for contracted landscape.	n/a	n/a
13		<b>Services to support industry regulations</b>	<b>This section does not define a fixed-scope service package but represents an open list of possible services that can be offered to support specific compliance needs; a detailed service scope must be specified in the managed services contract; examples for industry standards that may be addressed with these services are GxP or HIPAA.</b>		.	.
14		<b>Qualifications Services</b>			.	.
15	SM_1.6.02	Qualification deliverables (project and lifecycle documentation)	Optional Services		n/a	n/a
16	SM_1.6.03	Personnel qualification and training as mandatory requirement for administrator access to regulated industries systems	Optional Services		n/a	n/a
17	SM_1.6.04	Onboarding / system set-up with additional Installation Qualification	Optional Services		n/a	n/a
18		<b>Process Services</b>			.	.
19	SM_1.6.06	Documents and records management for regulated industries	Optional Services		n/a	n/a
20	SM_1.6.07	Change and configuration management for regulated industries	Optional Services		n/a	n/a
21	SM_1.6.08	Problem management for regulated industries	Optional Services		n/a	n/a
22	SM_1.6.09	Audits and periodic review	Optional Services		n/a	n/a
23	SM_1.6.10	System decommission for regulated industries	Optional Services		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
24		<b>B - Managed Infrastructure</b>	<b>Section B - Managed Infrastructure describes the infrastructure services provided for components used as part of managed systems; services around "Server Provisioning" (aka IaaS) are described in detail in the respective section. Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler).</b>			
25		<b>Data Center Management</b>				
26	INFRA_1.1.01	Manage Data Center	Standard Services	This service is operated either in DC facilities owned by the respective service provider, in rented co-location facilities, public cloud, or on hyperscaler infrastructure platforms.	n/a	n/a
27		<b>Network Management</b>				
28	INFRA_1.2.01	Manage remote connection between the managed system landscape and service provider's support infrastructure	Standard Services	Service initiated after formal transition to service provider.	n/a	n/a
29	INFRA_1.2.03	Move an existing system in a Customer landscape to new subnet for the purpose of network segregation	Additional Service	For moving or reconfiguring existing virtual machines from one subnet to another subnet. Does not include Customer Gateway Servers (CGS) - see INFRA_1.2.06 for CGS.	n/a	n/a
30	INFRA_1.2.03A	Provision additional subnets as part of initial landscape build or after network build to segregate tiers (e.g. PROD, DEV, QA) or move VMs	Additional Service	Up to Two (2) additional subnets are covered as part of standard offering during the initial landscape build. Customers can request more subnets using this Additional Service if more subnets are needed during the initial network build or in an existing landscape. This service covers subnet creation for tiers such as Sandbox, DEV, QA etc. only and does not cover isolation or restrictions between subnets using SG/NSG/Firewall services; for this use INFRA_1.2.03B. Not in scope for application or DB server separation.	n/a	n/a
31	INFRA_1.2.03B	Configure communication restrictions between production and non-production tiers	Additional Service	Can be used if restrictions are needed between tiers or on-premise systems. Customer must provide communication matrix to provision restrictions (e.g. allow trans mount access across tiers; allow port 3299 from prod to QA etc.) Restriction rules (such as ACLs) are limited to Twenty (20) per tier default are exe. Such restrictions between application and DB servers within a tier are not in scope not permitted. Service provider access can't be restricted.	n/a	n/a
32	INFRA_1.2.04	Modify existing customer connectivity (VPN, MPLS, Cloud Peering, ExpressRoute, Direct Connect, Interconnect, VPC/VNET Peering, etc.)	Standard Services	One (1) ticket per each feature change is required (after initial connectivity is established). Service modifications require downtime.	n/a	n/a
33	INFRA_1.2.06	IP address migration of Customer Gateway Servers (CGS) - Change IP addressing of existing network segment to new IP addressing	Additional Service	For use where the original IP range of a network segment (including delivered systems) needs to be changed. Not available for systems in a Hyperscaler environment.	n/a	n/a
34	INFRA_1.2.07	Enable DNS integration of on-premise customer domains into customer DNS servers to resolve on-premise host names	Standard Services	Standard service during initial set-up and onboarding phases only. If required after system handover use INFRA_1.2.11. Supported through DNS forwarding on the DNS server. This task does not add/etc/hosts file entries on individual servers.	n/a	n/a
35	INFRA_1.2.08	Migrate SAP domain (*.sap.biz) to customer domain or customer domain migration	Additional Service	Used in case customer wants to change from internal domain to customer domain or want to migrate existing domain to new domain due to organizational change.	n/a	n/a
36	INFRA_1.2.11	Change DNS Configuration	Additional Service	DNS forwarding to Customer on-premise domains; zone transfers to multiple remote sites; and changes to existing DNS config.	n/a	n/a
37		<b>Hardware Operations</b>	<b>Applies to equipment managed by service provider.</b>			
38	INFRA_1.4.03	Plan and conduct managed service infrastructure maintenance	Standard Services		n/a	n/a
39	INFRA_1.4.05	Monitor critical operations parameters of computing environment	Standard Services		n/a	n/a
40	INFRA_1.4.06	Monitor disk capacity	Standard Services	Subject to additional fees for additional capacity.	n/a	n/a
41	INFRA_1.4.07	Monitor server capacity	Standard Services	Subject to additional fees for additional capacity.	n/a	n/a
42	INFRA_1.4.08	Monitor network utilization	Standard Services		n/a	n/a
43	INFRA_1.4.09	Infrastructure/hardware/system requests; Process commercial change requests as required for hardware upgrades, additions etc.	Standard Services	Subject to reasonable lead time, customer to provide request via tracking system with sufficient detail; additional fees apply; service provided only during office hours (referring only to the commercial part, technical implementation timing will be scheduled based on contractual specifications).	n/a	n/a
44	INFRA_1.4.11	Scale compute capacity (memory and CPU)	Optional Services		n/a	n/a
45		<b>Storage Management</b>				
46	INFRA_1.5.01	Manage data files, file systems and disks per standards and practices	Standard Services	<a href="#">Process flow - additional information available.</a>	n/a	n/a
47	INFRA_1.5.02	Scale storage capacity	Optional Services		n/a	n/a
48	INFRA_1.5.03	Enable SnapLock/WORM/Immutability capability for archiving use cases	Optional Services	Available only for certain storage types on request; activated per volume. Not available on Hyperscaler.	n/a	n/a
49	INFRA_1.5.04_AE	Review and analyze the impact of data volume/load on data environment performance	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Volume Optimization	D6
50	INFRA_1.5.05_AE	Determine if existing hardware can meet growth	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Volume Optimization	D6
51	INFRA_1.5.06_AE	Develop alternative plans (e.g. archiving, consolidation, hardware upgrades)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Volume Optimization	D6
52	INFRA_1.5.07	Encrypt EBS root volumes	Standard Services		n/a	n/a
53	INFRA_1.5.08	Remove SWAP disk from HANA database machines	Standard Services		n/a	n/a
54		<b>Operating System</b>				
55	INFRA_1.6.01	Create and maintain OS users and groups	Standard Services	Service provider access only, no privileged access to operating system by customer.	n/a	n/a
56	INFRA_1.6.04	Inform customer regarding security incidents	Standard Services		n/a	n/a
57	INFRA_1.6.05	Configure OS parameters	Standard Services		n/a	n/a
58	INFRA_1.6.06	Troubleshoot operating system problems, monitor system log and file systems	Standard Services		n/a	n/a
59	INFRA_1.6.07	Work with OS vendor to resolve operating system issues	Standard Services		n/a	n/a
60	INFRA_1.6.08	Monitoring of swap and page areas	Standard Services		n/a	n/a
61	INFRA_1.6.09	Monitoring of memory load	Standard Services		n/a	n/a
62	INFRA_1.6.12	Software Lifecycle Management of operating system	Standard Services	<a href="#">Process flow - additional information available.</a>	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
63		<b>System Startup/Shutdown</b>			.	.
64	INFRA_1.7.01	Perform scheduled startup/shutdown of computing environment	Standard Services		n/a	n/a
65	INFRA_1.7.03	Restart computing environment after failure	Standard Services		n/a	n/a
66		<b>Backup/Restore</b>			.	.
67		<b>General</b>			.	.
68	INFRA_1.8.01	Perform standard file system and database backups	Standard Services	Per standards, or according to specific terms of the Agreement.	n/a	n/a
69	INFRA_1.8.10	Perform exceptional ad-hoc backup upon request	Additional Service	Lead time for backup to be aligned in advance. This backup is not applicable for systems which are already fully backed up on a daily basis.	n/a	n/a
70	INFRA_1.8.09	Provide non-standard short-term backup services	Optional Services	This service is intended to provide short-term backups to be used during projects for testing and fallback reference. Maximum One (1) year retention. Change request required to cover extra storage requirements for the retention period. Lead times for change request processing to be factored in when ordering the service, BLOB (binary large object) storage to be factored in as per size requirements.	n/a	n/a
71	INFRA_1.8.11	Monitor backup processes	Standard Services		n/a	n/a
72	INFRA_1.8.07	Test backup/restore procedures periodically	Standard Services	This task cannot be ordered by customers. This task is used to verify procedures and operational readiness; testing is not performed for each individual system but for representative scenarios.	n/a	n/a
73	INFRA_1.8.03	Perform data restore and recovery (file system, database) as required after system failures	Standard Services		n/a	n/a
74	INFRA_1.8.02	Perform data restore and recovery (file system, database) on customer request (other reasons than as a response to system failures)	Standard Services	Up to Six (6) restores per SID, per contract year, are included.	n/a	n/a
75	INFRA_1.8.06	Validate logical integrity and consistency of restored information	Excluded Tasks		n/a	n/a
76		<b>NFS DB Volume Consistent Snapshot and Restore</b>			.	.
77	INFRA_1.13.01	Perform standard NFS DB volume snapshot	Standard Services	SAP HANA and ASE only. Per standards, or according to specific terms of the Agreement.	n/a	n/a
78	INFRA_1.13.02	Perform ad-hoc NFS DB volume consistent snapshot	Additional Service	Lead time to be aligned in advance.	n/a	n/a
79	INFRA_1.13.03	Perform exceptional ad-hoc NFS DB volume consistent snapshot	Additional Service	Example: extend retention period for a snapshot or transfer to secondary system for longer retention. Offered options are described in separate service descriptions and are subject to change; not every theoretically possible combination of snapshot frequency and retention period is offered.	n/a	n/a
80	INFRA_1.13.04	Perform DB NFS volume snapshot restore and recovery (file system, database) - as required after system failures	Standard Services	Extra charges apply for restores if caused by customer error.	n/a	n/a
81	INFRA_1.13.05	Perform DB NFS volume restore and recovery (file system, database) on customer request - reasons other than as a response to system failures	Additional Service		n/a	n/a
82	INFRA_1.13.06	Perform standard flat filesystem NFS volume snapshot (non-DB volumes)	Standard Services	Per standards, or according to specific terms of the Agreement.	n/a	n/a
83	INFRA_1.13.07	Restore standard flat filesystem NFS volume snapshot (non-DB volumes) - on customer request (other reasons than as a response to system failures)	Additional Service		n/a	n/a
84	INFRA_1.13.07A	Restore standard flat filesystem NFS volume snapshot (non-DB volumes) - as required after system failures	Standard Services		n/a	n/a
85		<b>Infrastructure integration</b>			.	.
86	INFRA_1.9.02	Integrate customer Active Directory, Google IdP and other identity management solutions	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
87	INFRA_1.9.04	Provide access to systems/resources within customer infrastructure	Excluded Tasks	If required to fulfil agreed contractual obligations.	n/a	n/a
88		<b>File transfer capabilities: CIFS shares</b>			.	.
89	INFRA_1.10.01	Mount remote customer SMB shares locally on managed landscape Linux clients (aka CIFS)	Standard Services	Within contractually agreed infrastructure capacity.	n/a	n/a
90	INFRA_1.10.01A	Provide Samba Server Share on managed landscape LINUX server for remote SMB clients	Standard Services	Within contractually agreed infrastructure capacity.	n/a	n/a
91	INFRA_1.10.03	User and access management	Standard Services	Once/initially when share is created.	n/a	n/a
92	INFRA_1.10.04	Create and maintain folder structure on shares	Standard Services		n/a	n/a
93	INFRA_1.10.05	Ensure up-to-date anti-virus protection on end user equipment connecting to the provided shares	Excluded Tasks		n/a	n/a
94	INFRA_1.10.06	Implement virus protection on server	Standard Services		n/a	n/a
95	INFRA_1.10.07	Backup of data uploaded to shares to ensure data integrity	Excluded Tasks	Customer must ensure that data which get uploaded to the CIFS shares are kept properly secured at customer end; the shares themselves are only backed up via standard file system backups not allowing point-in-time recovery.	n/a	n/a
96		<b>Managed SFTP Server</b>	<b>To be installed on existing application server in managed system</b>		.	.
97	INFRA_1.11.01	Configure sftp daemon	Standard Services	Only available on Linux.	n/a	n/a
98	INFRA_1.11.02 AE	Create and maintain sftp user accounts and groups	Standard Services	Up to 10 users.	n/a	n/a
99	INFRA_1.11.02A	Create and maintain sftp user accounts and groups - additional requests	Additional Service	Requests for additional users beyond those provided in INFRA_1.11.02 AE	n/a	n/a
100	INFRA_1.11.03	Manage file systems	Standard Services	Within contractually agreed infrastructure capacity.	n/a	n/a
101	INFRA_1.11.04	Provide user list	Excluded Tasks		n/a	n/a
102	INFRA_1.11.05	Create and delete files	Excluded Tasks		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
103		<b>Management of Wide Area Network</b>			.	.
104	INFRA_1.12.01	Provide network infrastructure at customer data center/site	Excluded Tasks		n/a	n/a
105	INFRA_1.12.02	Provide network switching and ports at SAP/Partner data center to customer to connect telco equipment	Standard Services	Per SAP Guidelines, customer must ensure compatible network infrastructure at own site. Note: does not include infrastructure such as rackspace for MPLS or other devices.	n/a	n/a
106	INFRA_1.12.03	Determine appropriate size and purchase network connection between customer and managed system sites; manage telecommunication provider/ISP	Excluded Tasks		n/a	n/a
107	INFRA_1.12.04	SAP Cloud Peering: Establish a virtual connection to an SAP datacenter via a customer's interconnection provider	Standard Services	Can only be used if SAP is connected to same interconnection provider. Monthly subscription fee via Change Request based on bandwidth. Connection of customer on-premise networks to interconnection hub is performed by the customer with their selected interconnect provider. Includes up to Four (4) x 100 Mbit/s cloud peering packages equal to a total of Four Hundred (400) Mbit/s. Customer can substitute cloud peering packages with a maximum of Five (5) VPN tunnels. Redundant VPN tunnels are not available.	n/a	n/a
108	INFRA_1.12.04_PCE	Add additional SAP Cloud Peering packages - 100Mbit/s increments	Standard Services	Add additional SAP Cloud Peering packages in 100) Mbit/s increments. A total of Four (4) x 100 Mbit/s packages equal to a total of Four Hundred (400) Mbit/s is available.	n/a	n/a
109	INFRA_1.2.05_PCE	Deploy customer connectivity options in SAP Datacenters and Hyperscalers	Standard Services	Allotment is based on selected Hyperscaler.  <b>VPN Connections:</b> <b>Azure:</b> Maximum of Ten (10) Site-to-site (S2S) tunnels or Five (5) Redundant tunnels; <b>Amazon Web Services (AWS):</b> Maximum Five (5) Site-to-Site VPN connections. By default each AWS VPN connection includes Two (2) tunnels; <b>Google Cloud Platform (GCP):</b> Two (2) High-Availability VPNs. Each HA VPN includes Two (2) tunnels; <b>SAP Datacenter:</b> Maximum One (1) Site-to-Site VPN connections.  <b>Private Connectivity:</b> <b>Azure:</b> One (1) Direct Connect 200 Mbit/s package with 2 TB egress traffic; <b>Azure:</b> One (1) ExpressRoute 1 Gbit/s gateway package with 200 Mbit/s port speed and 2 TB egress traffic; <b>GCP:</b> One (1) (redundant) Partner Interconnect 200 Mbit/s package with 2 TB egress traffic; <b>SAP Datacenter:</b> One (1) MPLS local extension link of 1 or 10 G between Customer MPLS routers and SAP ECS internal routers, and One (1) Cloud Peering connection up to 400Mbps.  <b>VPN/VNet Peering:</b> One (1) Peering. Applicable only for Hyperscalers (public cloud providers).  <b>TGW VPC Attachment:</b> One (1) VPC attachment; applicable for <b>AWS</b> only.  <b>In case of S/4HANA Cloud, private edition, base option:</b> Currently applicable for SAP Datacenter only. Allowed options - One (1) redundant Site-to-Site VPN OR One (1) MPLS up to 1Gbps OR One (1) Cloud Peering up to 400Mbps.  Customer can purchase additional connections for any connectivity requirements higher than the quantity above.	n/a	n/a
110		<b>Firewall-as-a-Service (FWaaS)</b>	Firewall as a Service (FWaaS) brings UTM-based firewall technology to customer landscapes on Hyperscalers and includes features such as advanced traffic filtering, intrusion prevention (IPS) and bot detection. The service is fully managed by the Service Provider, but customers will have the possibility to request new rules to be added to their firewall or existing rules deleted. Customers can also request an export of their rulebase.	FWaaS does not take over firewalling responsibilities for customers in their respective on-premise landscapes. The scope of FWaaS is to filter traffic within the SAP ECS Private Cloud Landscape where customers cannot do this by themselves. Customer are still required to filter on their side which user/server is allowed to go the landscape. FWaaS usually accepts all connectivity from customer networks as checked and trusted. FWaaS has been designed to fit easily and smoothly into new and existing environments while being as transparent to configuration efforts as possible. Customers may be required to perform some technical reconfigurations on their side.	.	.
111	FWAAS_1.1.01	Install Network Virtual Appliance	Optional Services	Base FWaaS installation.	n/a	n/a
112	FWAAS_1.1.02	Modify firewall rule base	Optional Services	Adding/removing rules or modifying existing rules.	n/a	n/a
113	FWAAS_1.1.03	Export Customer rule base	Optional Services		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
114		<b>C1 - Database Management SAP HANA</b>				
115		SAP HANA (general database operations)	The standard service scope specified by this version of the Roles and Responsibilities includes certain baseline features and functionalities which are part of the SAP HANA database. SAP HANA provides additional or optional features and functionalities for which related services and support are not included in the standard service scope, and may be available on an additional cost basis.	Additional and optional services to support these and future SAP HANA features and the availability of those services will be evaluated and determined by SAP on a case-by-case basis, including the assessment of associated efforts and costs. The respective standard and additional services are shown in separate sections of this document.		
116	HANA_1.1.31	Provide recommendations on database release management	Standard Services	Service provider will provide guidance on recommended database releases based on operational experience and information given by SAP Product Development.	n/a	n/a
117	HANA_1.1.01	Plan and perform file system extensions for e.g. backup activities	Standard Services	Additional infrastructure consumption requires a CR.	n/a	n/a
118	HANA_1.1.02	Monitor database resource consumption to detect issues in technical operations	Standard Services	Task output feeds into capacity management; recommendations for optimization may also be provided via SAP Enterprise Support services.	n/a	n/a
119	HANA_1.1.03	Monitor table growth to proactively prevent operational issues and ensure that the service stays within the contractual sizing boundaries	Standard Services	Storage capacity is specified in the service description. Monitoring and alerting is performed through automated system. Recommendations for limitation of data growth may also be provided via SAP Enterprise Support services.	n/a	n/a
120	HANA_1.1.25	Design table partitioning strategy/architecture	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Only available as part of a Cloud Application Service package and cannot be requested as a standalone task. Requires lead-time for analysis, planning, and coordination between the Customer and Service Provider delivery team.	Data Lifecycle Management	D3
121	HANA_1.1.04	Partition tables (technical execution)	Standard Services	If required as a consequence of extensive table growth; One (1) execution per SID, per year included; any further requests will be charged separately.	n/a	n/a
122	HANA_1.1.35	Partition tables (technical execution) - additional requests	Additional Service	Efforts for additional table partition requests.	n/a	n/a
123	HANA_1.1.36	Database table redistribution based on the table placement rules (Technical Execution)	Standard Services	For requirements involving application dependency (e.g. Moving tables and table partitions manually from one host to another).	n/a	n/a
124	HANA_1.1.05	Perform rowstore / column store migration: technical execution only	Standard Services	Per customer request. Executing party to be mutually agreed between the service provider and customer; migration of larger SAP tables to be done by service provider; customer should perform task on own tables if desired; additional downtime required per customer approval.	n/a	n/a
125	HANA_1.1.37	Database Defragmentation (Data Volume Reclamation)	Standard Services		n/a	n/a
126	HANA_1.1.38	Database Row Store Fragmentation	Standard Services		n/a	n/a
127	HANA_1.1.06	Monitor database for technical issues; analyze and resolve technical database failures	Standard Services		n/a	n/a
128	HANA_1.1.07	Clean-up HANA log and trace files (traces, statistic files etc.) to free up capacity and keep HANA system clean and healthy	Standard Services		n/a	n/a
129	HANA_1.1.08	Maintain technical configuration parameters for SAP HANA and SAP HANA XS based on standards and recommendations	Standard Services		n/a	n/a
130	HANA_1.1.09	Start/stop database	Standard Services		n/a	n/a
131	HANA_1.1.10	Add/remove SAP HANA node to adjust SAP HANA capacity	Optional Services	For HANA scale-out configurations only.	n/a	n/a
132	HANA_1.1.28	Create additional schema for existing SAP HANA datamart	Standard Services		n/a	n/a
133	HANA_1.1.29	Change of SAP HANA database ID and instance number	Standard Services		n/a	n/a
134	HANA_1.1.26	Change SAP HANA database architecture (single node to multi node or vice versa)	Optional Services	Single node to multi node and vice-versa requires additional steps such as adding/removing HANA services and would be treated as a hardware migration.	n/a	n/a
135	HANA_1.1.11	Manage standby databases (HANA System Replication) for high availability	Standard Services	Performed only for productive systems; only if dedicated standby databases are explicitly included as part of the solution in the contract. Not in scope for multi-node set-ups. Failover tests are not performed on a regular basis per system.	n/a	n/a
136	HANA_1.1.12	Update SAP HANA database software	Standard Services	Additional downtime for maintenance required; Systems with HA nodes include the use of advanced update approaches by default such as ZDO/Downtime Minimization . The term "update" denotes the change to a new minor release of the hosted SAP software, typically focused on bug fixes and small enhancements. DB client updates are merged with the SAP application kernel update method.	n/a	n/a
137	HANA_1.1.12A	Install or Update SAP HANA client	Standard Services	Install or update SAP HANA client software on application instances and non SAP HANA systems. Applicable for Production and Non-Production systems.	n/a	n/a
138	HANA_1.1.33	SAP HANA version upgrade and update of DB Client	Standard Services	HANA systems to HANA MDC system with latest support pack levels, and with replication mode set to CLR. The term "version upgrade" denotes the change to a new major release of the hosted SAP software, typically including functional enhancements.	n/a	n/a
139	HANA_1.1.22	SAP HANA Transports Management Set-up	Standard Services	Limited to the setup of the transport management system and does not include ongoing operation of the transport management system.	n/a	n/a
140	HANA_1.1.14	Implement / maintain additional SAP tools (e.g. SAP HANA Analytics Foundation Browser)	Standard Services	Depending on customer requirements; only for tools in the HANA context delivered by SAP, 3rd party tools not covered.	n/a	n/a
141	HANA_1.1.15	Identify, analyze and optimize expensive SQL-statements to improve application performance	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Performance Optimization or Database Performance Management or Core Performance Management	P2, P3, P4
142	HANA_1.1.16	System troubleshooting, e.g. blocked transactions, to overcome issues and bring SAP HANA back to normal state of operations	Standard Services		n/a	n/a
143	HANA_1.1.17	Create/modify users for HANA modelling in the SAP HANA Studio	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
144	HANA_1.1.18	User, roles, and permissions management for non-technical users	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Customer has ownership and responsibility for SAP HANA role CUST_USER_ROLE_ADMIN.	Application Operations or Secure Users & Authorizations	A1, S2
145	HANA_1.1.19	User, roles and permissions management for technical and administration users	Standard Services	<a href="#">Process flow - additional information available</a> . Technical users: e.g. users delivered and used by SAP HANA. This service is only for internal Users created by service provider e.g. SAPSID / SAPABAP1 / SAPHANADB.	n/a	n/a
146	HANA_1.1.20	Perform database backups (regular full backups and log backups)	Standard Services	Per backup policy.	n/a	n/a
147	HANA_1.1.21	Restore and recover SAP HANA after technical issues	Standard Services		n/a	n/a
148	HANA_1.1.30	Perform database consistency check (DBCC)	Standard Services		n/a	n/a
149	HANA_1.1.32	Export/Import of database schema	Excluded Tasks		n/a	n/a



Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
150	HANA_1.1.23	Implement SAP HANA database encryption on SAP HANA database already installed during Operations	Optional Services	Enable encryption on systems in operation. Downtime required for re-installation of database; potential additional storage consumption is subject to a change request (CR).	n/a	n/a
151	HANA_1.1.24	Implement SAP HANA database encryption on SAP HANA database already installed during Build	Standard Services	Encryption enabled at system build only if it has been requested.	n/a	n/a
152	HANA_1.1.39	Implement SAP HANA log encryption on SAP HANA database already installed	Standard Services		n/a	n/a
153	HANA_1.1.40	Configure Secure Communication on SAP HANA System Replication (HSR)	Standard Services	Available by default in HANA 2.0. Explicitly required only for HANA 1.0 where EarlyWatch Alert recommends to secure System Replication communication or a Tenant needs to be moved to another system.	n/a	n/a
154	HANA_1.1.41	Activate SAP HANA Fast Restart Option	Standard Services		n/a	n/a
155	HANA_1.1.42	Deactivate SAP HANA Fast Restart Option	Standard Services		n/a	n/a
156	HANA_1.1.43	Install or Update HANA plug-ins	Standard Services	Used for installation or update of HANA plug-ins on the selected HANA database.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
157		<b>SAP HANA XS</b>			.	.
158	HANA_1.2.01	Maintain technical configuration parameters for SAP HANA XS based on SAP standards and recommendations	Standard Services		n/a	n/a
159	HANA_1.2.02	Maintain Application Runtime Configurations	Standard Services		n/a	n/a
160	HANA_1.2.03	Manage Trust Relationships	Standard Services		n/a	n/a
161	HANA_1.2.04	Maintain SAML Providers	Standard Services		n/a	n/a
162	HANA_1.2.05	Maintain SMTP Server Configurations	Standard Services		n/a	n/a
163	HANA_1.2.06	Maintain HTTP Access to SAP HANA	Standard Services		n/a	n/a
164	HANA_1.2.08	Maintain User Self Service Tools	Standard Services		n/a	n/a
165	HANA_1.2.09	Schedule XS Jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
166	HANA_1.2.11	Maintain HTTP Traces for SAP HANA XS Applications	Standard Services		n/a	n/a
167		<b>SAP HANA XSA</b>			.	.
			SAP HANA XSA is a separate technical component and not part of a standard installation of an SAP HANA database; SAP HANA XSA needs to be explicitly included/scoped in the initial contract or subsequent Change Request (CR).			
168	HANA_1.9.01	Install along with HANA Server	Optional Services		n/a	n/a
169	HANA_1.9.02	Install XSA Components as an add-on for already installed HANA Server	Optional Services		n/a	n/a
170	HANA_1.9.04	Set-up/Configure XSA for HANA Development at customer side	Excluded Tasks		n/a	n/a
171	HANA_1.9.05	Configure XS-CLI Tool for HANA Development	Excluded Tasks		n/a	n/a
172	HANA_1.9.06	User management for HANA Development	Excluded Tasks		n/a	n/a
173	HANA_1.9.07	Monitoring of XSA services and its applications	Optional Services	Super set will be included in monitoring if selected.	n/a	n/a
174	HANA_1.9.08	Set-up Logical database (Register Tenant Database)	Optional Services		n/a	n/a
175	HANA_1.9.10	Backup and restore of XSA specific files	Standard Services		n/a	n/a
176	HANA_1.9.11	Web Dispatcher configuration for the applications installed by service provider and built by customers	Optional Services		n/a	n/a
177	HANA_1.9.13	Support customer built applications	Excluded Tasks		n/a	n/a
178	HANA_1.9.14	Availability monitoring of customer built applications	Excluded Tasks		n/a	n/a
179	HANA_1.9.15	Backup of custom applications if using file system storage	Standard Services		n/a	n/a
180	HANA_1.9.16	Restore of customer built applications using file system storage provided the backup has been enabled prior	Standard Services		n/a	n/a
181	HANA_1.9.17	Post-restore task checking and connection of custom applications	Excluded Tasks		n/a	n/a
182	HANA_1.9.18	HANA XS (XS classic) to XSA model conversion	Additional Service		n/a	n/a
183		<b>SAP HANA: Smart Data Integration (Formerly Enterprise Information Management - EIM)</b>	<b>Extended feature beyond the standard service scope.</b>		.	.
184		<b>Set-up - Technical Set-up Only - Does Not Include Application Set-up</b>			.	.
185	TO_HANA_SDI_1.1.01	Enable Data Provisioning Server	Standard Services	The Data Provisioning Server is a native SAP HANA process. It is built as an index server variant, runs in the SAP HANA cluster, and is managed and monitored just like other SAP HANA services. The Data Provisioning Server is installed with, but must be enabled in, the SAP HANA Server.	n/a	n/a
186	TO_HANA_SDI_1.1.02A	Install, configure, and register Data Provisioning Agents	Standard Services	Two (2) DP Agents are included with the standard service. For additional DP Agents see TO_HANA_SDI_1.1.02.	n/a	n/a
187	TO_HANA_SDI_1.1.02	Install, configure, and register Data Provisioning Agents - Additional Agents	Optional Services	For additional DP Agents.	n/a	n/a
188	TO_HANA_SDI_1.1.04	Set-up Smart Data Quality (SDQ)	Optional Services	Deploy SDQ, download Address and Data Cleansing package from the SAP Service Market Place and configuration from SAP HANA Server. SFTP access will be set-up so that the customer may upload the address directories on their own.	n/a	n/a
189	TO_HANA_SDI_1.1.05	Set-up Agile Data Preparation (ADP)	Standard Services	ADP requires SDQ, ESS and HRF be deployed and set-up with related users and authorizations.	n/a	n/a
190	TO_HANA_SDI_1.1.06	Administration of Agile Data Preparation (ADP)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Setting Export Options, worksheet expiration, password features, warehouse workspace, and size and policy for queues.	Application Operations or Data Integration	A1, D2
191	TO_HANA_SDI_1.1.07	Set-up replications, federation and transformations	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Data Integration	A1, D2
192	TO_HANA_SDI_1.1.08	FlowGraph jobs backup	Excluded Tasks	Customer can use SAP SDI Web application interface and/or SDI Fiori Catalog/Tiles for this task.	n/a	n/a
193	TO_HANA_SDI_1.1.09	Replication task backup	Excluded Tasks	Customer can use SAP SDI Web application interface and/or SDI Fiori Catalog/Tiles for this task.	n/a	n/a
194	TO_HANA_SDI_1.1.10	DP Agent - High Availability set-up	Optional Services	DP Agent can be set-up in High Availability set-up by provisioning shadow instances on additional nodes; included only if explicitly mentioned in the contract.	n/a	n/a
195	TO_HANA_SDI_1.1.11	Deploy standard adapters with SAP HANA	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	See the SDI guide on the SAP Help Portal for a list of standard and custom adapters.	Application Operations or Data Integration	A1, D2
196	TO_HANA_SDI_1.1.12	Deploy custom adapters with SAP HANA	Optional Services	See the SDI guide on the SAP Help Portal for a list of standard and custom adapters.	n/a	n/a
197	TO_HANA_SDI_1.1.13	Monitor Data Provisioning tasks and remote subscriptions	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Data Integration	A1, D2
198	TO_HANA_SDI_1.1.14	Process remote subscription exceptions	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Data Integration	A1, D2

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
199		<b>SAP HANA: Streaming Analytics Option (Formerly Smart Data Streaming SDS)</b>	<b>Extended feature beyond the standard service scope.</b>		-	-
200		<b>Operational Set-up</b>			-	-
201	TO_HANA_SA_1.0.01	Install Streaming Analytics option package	Optional Services	SAO package is installed on the SAP HANA DB node/MDC Tenant.	n/a	n/a
202	TO_HANA_SA_1.0.02	Add Streaming Analytics option hosts	Optional Services		n/a	n/a
203	TO_HANA_SA_1.0.04	Configure data source on Streaming Analytics option host	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Configure odbc.ini for SAP HANA connection from each of the SAO hosts.	Application Operations or Data Integration	A1, D2
204	TO_HANA_SA_1.0.05	Set-up streaming authorization	Optional Services	Activate smart data streaming roles, privileges and object access for monitoring and operations.	n/a	n/a
205	TO_HANA_SA_1.0.06	Enable Streaming Analytics related Fiori tiles on existing SAP HANA Cockpit within Customer landscape	Optional Services	Execute tasks for SAP HANA Cockpit activation for operations and monitoring.	n/a	n/a
206	TO_HANA_SA_1.0.07	Configure Streaming Cluster - High Availability set-up	Optional Services	Configure for high availability by adding multiple nodes. Additional Infrastructure required.	n/a	n/a
207	TO_HANA_SA_1.0.08	Provision of Disaster Recovery (Streaming Analytics option nodes)	Optional Services	Provisioning of identical number of nodes at a secondary site to mirror primary site using provisioning tool.	n/a	n/a
208	TO_HANA_SA_1.0.09	Streaming Lite set-up	Excluded Tasks	Streaming Lite is optional and not required as part of a standard SAO installation. The Streaming Lite package is downloadable as a separate component only. Streaming Lite is designed to deploy streaming projects on remote gateway devices	n/a	n/a
209	TO_HANA_SA_1.0.10	Create and deploy Streaming Analytics option streaming projects	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Using SAP HANA Studio, create and deploy project for data streaming to SAP HANA and other external sources.	Application Operations or Data Integration	A1, D2
210	TO_HANA_SA_1.0.11	Monitor Streaming Analytics option objects and projects	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Monitoring SAO objects and projects using SAP HANA/ESP Cockpits.	Application Operations or Data Integration	A1, D2
211		<b>SAP HANA: Multiple Database Containers (MDC)</b>	<b>Extended feature beyond the standard service scope.</b>		-	-
212		<b>Operational Set-up</b>			-	-
213	TO_HANA_MDC_1.1.01	Install HANA MDC (HANA server, Client, AFL, Runtime Libraries and Studio)	Standard Services	MDC is default in SAP HANA 2.0.	n/a	n/a
214	TO_HANA_MDC_1.1.06	Create technical users	Standard Services	MDC is default in SAP HANA 2.0. Customer responsible for user management using CUST_USER_ROLE_ADMIN	n/a	n/a
215	TO_HANA_MDC_1.1.07	Create additional tenants for datamart scenarios on existing infrastructure	Optional Services	For use on existing infrastructure. A change request (CR) is required for backup retention requirements and the set-up of new continuous monitoring.	n/a	n/a
216	TO_HANA_MDC_1.1.08	Create additional tenants for datamart scenarios on new infrastructure	Optional Services	Additional infrastructure consumption requires a change request (CR).	n/a	n/a
217	TO_HANA_MDC_1.1.04	Install additional services for tenant DB containers	Standard Services	Additional services such as dp server, index server, XS engine. By default one of each comes automatically upon creation of a tenant; installation of additional services required for certain use cases is covered under this line item.	n/a	n/a
218	TO_HANA_MDC_1.1.05	Scale out of tenant database	Standard Services	SAP BW systems only.	n/a	n/a
219	TO_HANA_MDC_1.2.17_AE	Tenant Copy/Move Preparation, Checks, Certificates, Pre-Steps, Move/Copy via replication, post processing steps	Standard Services	Move will drop the source database after the task is complete. Copy will keep the source after the task is complete.	n/a	n/a
220	TO_HANA_MDC_1.2.01	Network: Reserve additional ports to one instance to adjust tenant overhead per instance	Standard Services		n/a	n/a
221	TO_HANA_MDC_1.2.03	Auditing: Create and enable audit policies for systemdb and each tenant DB	Standard Services		n/a	n/a
222	TO_HANA_MDC_1.2.04	Data storage: DB-specific encryption keys	Standard Services	SSFS Source Key Change.	n/a	n/a
223	TO_HANA_MDC_1.2.08	Data storage: DB-specific encryption keys (SSFS Source Key) Change	Standard Services	Change some/all keys upon request by customer. Used for Instance SSFS and System PKI SSFS master key, data volume encryption root key, redo log encryption root key, page encryption keys.	n/a	n/a
224	TO_HANA_MDC_1.2.06	Backup of individual tenants	Additional Service	As per standard, backups are performed for the entire database. However, a tenant-individual backup - as a file based dump - is possible on individual request.	n/a	n/a
225	TO_HANA_MDC_1.2.07	Restore backup of individual tenant	Additional Service		n/a	n/a
226	TO_HANA_MDC_1.2.10	Authorization: Manage system privileges and tenant DB privileges	Standard Services		n/a	n/a
227		<b>Active-Active Read Enabled Set-up</b>	<b>Extended feature beyond the standard service scope. Evaluated and reviewed by SAP on a case-by-case basis and pending license availability.</b>		-	-
228	TO_HANA_AAR_1.1.01	Install primary and secondary SAP HANA system	Optional Services	Import delivery units, set-up users and roles.	n/a	n/a
229	TO_HANA_AAR_1.1.03	Establish log replay between both SAP HANA instances	Optional Services	Import delivery units, set-up users and roles.	n/a	n/a
230	TO_HANA_AAR_1.1.04	Establish monitoring for secondary system	Optional Services		n/a	n/a
231		<b>Remote Data Sync (RDS)</b>	<b>Extended feature beyond the standard service scope.</b>		-	-
232		<b>Set-up and Configuration</b>			-	-
233	TO_HANA_RDS_1.1.01	Install Remote Data Sync component on SAP HANA	Optional Services	RDS package is installed on the SAP HANA DB node. It can be installed at the same time as the SAP HANA install or can be installed independently.	n/a	n/a
234	TO_HANA_RDS_1.1.02	Add Remote Data Sync Host	Optional Services		n/a	n/a
235	TO_HANA_RDS_1.1.03	Activate RDS roles, privileges and object access for monitoring and operations	Optional Services		n/a	n/a
236	TO_HANA_RDS_1.1.04	Import of RDS delivery units	Optional Services	This task is required only in MDC set-ups.	n/a	n/a
237	TO_HANA_RDS_1.1.05	Set-up and configure RDS nodes for each tenant DB including service initialization, cockpit access, delivery units and verification	Optional Services	This task is required only in MDC set-ups.	n/a	n/a
238	TO_HANA_RDS_1.1.06	RDS cockpit - Set-up and Configuration	Optional Services	Execute tasks for HANA Cockpit activation for RDS operations and monitoring.	n/a	n/a
239		<b>High Availability Set-up</b>			-	-
240	TO_HANA_RDS_1.2.01	Set-up of additional hosts for high availability	Optional Services	Add and setup RDS for additional nodes, including configuration of single or multi-tenant databases and group setup. For Multi-tenant setup, only a single stand-by node serves all tenant DB(s). For RDS LoadBalancer setup, check R&R Section 'LoadBalancer'.	n/a	n/a
241	TO_HANA_RDS_1.2.02	High availability configuration	Optional Services	High Availability configuration is performed during initial landscape build when multiple RDS hosts are provisioned. Any additional RDS host setup and configuration after go-live will require additional costs.	n/a	n/a
242	TO_HANA_RDS_1.2.03	Set-up and configure LoadBalancer for High Availability support	Optional Services	High Availability configuration is performed during initial landscape build when multiple RDS hosts are provisioned. Any additional RDS host setup and configuration after go-live will require additional costs. RDS configuration activities can be performed using SAP Fiori Apps in the SAP HANA Cockpit.	n/a	n/a
243		<b>Other Services</b>			-	-
244	TO_HANA_RDS_1.3.01	Set-up and configure synchronization scripts	Excluded Tasks	Configure synchronization script for upload and download of data between remote and consolidate databases.	n/a	n/a
245	TO_HANA_RDS_1.3.02	Monitor synchronization requests, process and status	Excluded Tasks	Monitoring sync status, request and availability using RDS cockpits.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
246		<b>Capture and Replay</b>	<b>Extended feature beyond the standard service scope.</b>		.	.
247	TO_HANA_CR_1.1.01	Prepare capture in source system	Optional Services	Import Delivery units, set-up users and roles.	n/a	n/a
248	TO_HANA_CR_1.1.02	Start capture	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Customer must ensure sufficient capacity to store capture of workload; capacity extension requires change request (CR).	Database Performance Management	P3
249	TO_HANA_CR_1.1.03	Set-up replay in target system	Optional Services	Import Delivery units, set-up users and roles.	n/a	n/a
250	TO_HANA_CR_1.1.04	Configure replayer service	Optional Services	Configure replayer service.	n/a	n/a
251	TO_HANA_CR_1.1.05	Preprocess and replay in target system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Database Performance Management	P3
252		<b>SAP HANA: Accelerator for SAP ASE (AFA)</b>			.	.
253		<b>Operational Set-up</b>			.	.
254	TO_AFA_1.1.01	Install Accelerator for SAP ASE Package	Standard Services	HANA - AFA package is installed on the SAP HANA DB node.	n/a	n/a
255	TO_AFA_1.1.02	Add Accelerator for ASE Host	Standard Services	Adding Accelerator for ASE host. For multi-tenant set-ups, AFA nodes are added exclusively to each tenant DB.	n/a	n/a
256	TO_AFA_1.1.03	Install and configure SAP Replication Server	Standard Services	SAP Replication server is required when data is replicated from existing SAP ASE OLTP source server to SAP HANA target server. Depending on SAP ASE OLTP server installed location i.e. on on-premise or cloud landscape, replication server can be installed as managed server.	n/a	n/a
257	TO_AFA_1.1.04	Authorization - Set-up	Standard Services	Activate accelerator for ASE roles, privileges and object access for monitoring and operations. Provision specific user and roles.	n/a	n/a
258	TO_AFA_1.1.05	Enable Pushdown Optimization	Standard Services	AFA pushdown optimization is enabled on AFA nodes.	n/a	n/a
259	TO_AFA_1.1.06	Import Delivery Units	Standard Services	Import of AFA Delivery units in HANA multi-container scenarios. This task is required only in MDC set-up.	n/a	n/a
260	TO_AFA_1.1.07	Multitenant Set-up	Standard Services	Configure and set-up AFA nodes for each tenant DB including, service initialization, cockpit access, delivery units and verification.	n/a	n/a
261	TO_AFA_1.1.08	Configure HTTP Access for Multi Database Containers (MDC)	Standard Services	Configure HTTP Access for Multitenant Database Containers for HANA Cockpit Access and monitoring. Note: This task is not required if HTTP Access is already configured for existing MDC set-up.	n/a	n/a
262	TO_AFA_1.1.09	High availability set-up and configuration	Optional Services	High Availability set-up and configuration involving single or multi-tenant DB set-ups including ETS group set-up; only if standby nodes are part of the contractual landscape design.	n/a	n/a
263		<b>SAP ASE AFA - Other Services</b>			.	.
264	TO_AFA_1.2.01	Pushdown Analysis Tool Set-up	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Simulation tool to evaluate pushdown optimization. This is carried out prior to AFA Deployment.	Application Operations	A1
265	TO_AFA_1.2.02	Data Replication for Accelerated Reporting	Excluded Tasks	Set-up ASE OLTP data replication to HANA DB. Identify and set-up DB objects to be replicated.	n/a	n/a
266	TO_AFA_1.2.03	Monitor Accelerator for ASE Pushdown Statements	Excluded Tasks	Monitoring Accelerator for ASE objects including pushdown statements using HANA Cockpits.	n/a	n/a
267		<b>SAP HANA Native Storage Extension (NSE)</b>	<b>NSE is enabled by default on systems running HANA 2.0 SP04 or later. Customer is responsible for evaluating and requesting additional disk space for persistent storage. Additional storage for warm data must be included as part of contract or added as part of a Change Request (CR).</b>		.	.
268	TO_NSE_1.1.01	Change Buffer cache size	Standard Services	Does not include calculating appropriate buffer cache size; Customer must provide buffer cache size. Change Request (CR) required if additional storage is needed.	n/a	n/a
269	TO_NSE_1.1.02	Run/Analyze Advisor Reports	Excluded Tasks		n/a	n/a
270	TO_NSE_1.1.03	Reconfigure load unit for tables	Excluded Tasks		n/a	n/a
271		<b>Pacemaker High Availability Set-up</b>	<b>Optional Service/Change Request (CR) required for Service Level Agreement (SLA).</b>		.	.
272		<b>Installation and Configuration</b>			.	.
273	TO_HANA_PM_1.1.01	Install SUSE Cluster (Pacemaker) package	Optional Services	For HANA 2.0 or SAP NetWeaver application servers.	n/a	n/a
274	TO_HANA_PM_1.1.01A	Convert non-Pacemaker System to Pacemaker based System	Additional Service	Convert existing system to Pacemaker combines all activities to restructure existing system to the target Pacemaker HA architecture and install/configure Pacemaker on top according to the Service Provider standards. Conversion is executed during a Customer provided downtime window. As a prerequisite, Customer needs to order all required infrastructure for the target Pacemaker/HA system deployment as well as the related Pacemaker packages (SBD, Cluster and Majority Maker if required).	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
275		<b>C2 - Database Management</b>	<b>Excluding SAP HANA and Sybase IQ which are described in the respective sections.</b>		.	.
276		<b>Database operations</b>			.	.
277	DB_1.1.17	Provide recommendations on database release management	Standard Services	Service provider will provide guidance on recommended database releases based on operational experience and information given by SAP Product Development.	n/a	n/a
278	DB_1.1.19	Monitor database resource consumption (memory, CPU, storage) to detect issues in technical operations	Standard Services	Task output feeds into capacity management; recommendations for optimization may also be provided via SAP Enterprise Support services.	n/a	n/a
279	DB_1.1.02	Perform database extensions to increase database capacity	Standard Services	Increased consumption will be charged according to contractual Agreement and may be a prerequisite to this task.	n/a	n/a
280	DB_1.1.20	Monitor database for technical issues; analyze and resolve technical database failures	Standard Services		n/a	n/a
281	DB_1.1.24	System troubleshooting, e.g. blocked transactions to overcome issues and bring database back to normal state of operations	Standard Services		n/a	n/a
282	DB_1.1.05	Schedule periodic statistical database collectors to generate statistical performance data	Standard Services		n/a	n/a
283	DB_1.1.06	Perform reorganization to remove database fragmentation	Standard Services		n/a	n/a
284	DB_1.1.07	Maintain/change database parameters	Standard Services	Based on vendor recommendations and standards.	n/a	n/a
285	DB_1.1.21	Start/stop database	Standard Services		n/a	n/a
286	DB_1.1.11	Perform upgrades of database software	Standard Services	<a href="#">Process flow - additional information available.</a>	n/a	n/a
287	DB_1.1.12	Apply database patches	Standard Services	<a href="#">Process flow - additional information available.</a>	n/a	n/a
288	DB_1.1.13	Perform database backups (regular database and log backups)	Standard Services	Per backup policy.	n/a	n/a
289	DB_1.1.14	Restore and recover database after technical issues	Standard Services		n/a	n/a
290	DB_1.1.22	Perform database consistency check (DBCC)	Standard Services		n/a	n/a
291	DB_1.1.23	Export/import of database schema	Standard Services		n/a	n/a
292	DB_1.1.16	Assist customer in optimizing SQL statements (indexes, selects etc.) for application improvements	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Performance Optimization, Database Performance Management or Core Performance Management	P2, P3, P4
293	DB_1.1.25	Create indexes for application tables	Standard Services		n/a	n/a
294	DB_1.1.26	Shrink database	Additional Service	Valid only for Sybase ASE.	n/a	n/a
295	HANA_1.1.11B	Manage standby application instance for high availability	Standard Services	Performed only for productive systems; only if dedicated standby databases are explicitly included as part of the solution in the contract. Not in scope for multi-node set-ups. Failover tests are not performed on a regular basis per system.	n/a	n/a
296		<b>SAP ASE Database</b>			.	.
297	DB_1.1.18	Implement SAP ASE database encryption on SAP ASE database already installed in cloud	Standard Services	No downtime required.	n/a	n/a
298	HANA_1.1.11A	Manage standby databases (ASE System Replication) for high availability	Standard Services	Performed only for productive systems; only if dedicated standby databases are explicitly included as part of the solution in the contract. Not in scope for multi-node set-ups. Failover tests are not performed on a regular basis per system.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
299		<b>D - Core Technical Operations</b>				
300		<b>System Installation</b>				
301	BASIC_1.8.01	Install cloud solution landscape as specified in the cloud contract, based on SAP and standards and best-practices	Standard Services	If an entirely new customer system is set up as a homogenous copy (no change of database platform) of a customer system already residing in the cloud, the respective effort and costs are covered by the general set-up and there will be no additional charge for a "system copy". Source systems not residing inside cloud is not addressed by this comment and is covered by the separately contracted cloud onboarding and migration service.	n/a	n/a
302	BASIC_1.8.25	SAP system re-installation after system handover	Additional Service	Customer may request a system rebuild on existing infrastructure only. This service is for effort only and does not include any required infrastructure change. This service is not applicable if new or changed infrastructure is required as new or changed infrastructure requires a Change Request.	n/a	n/a
303	BASIC_1.8.02	Technical configuration (installation post-processing) of installed systems (e.g. scheduling of standard batch jobs, backup etc.)	Standard Services	Scope is determined by this Roles & Responsibilities document.	n/a	n/a
304	BASIC_1.8.27	Change license for ABAP or Java system or HANA stand-alone database	Standard Services	Update installation numbers and corresponding license for ABAP or Java system with any database or HANA stand-alone database.	n/a	n/a
305	BASIC_1.8.15	Basic Technical Configuration of SAP BW/4HANA Systems	Standard Services	For ABAP Greenfield set-ups only.	n/a	n/a
306	BASIC_1.8.23	Install a preconfigured system from an SAP delivered template solution in a cloud skeleton system	Standard Services	This service performs a restore of a purchased SAP delivered template into a cloud skeleton system. The build of the template is not included in this service. Service must be requested during the initial provisioning phase. Template solution requests coming after the initial delivery of systems require additional service costs. Validation of the compatibility of different SAP delivered templates is not included in this service. Underlying target infrastructure must be appropriately sized and suited for the preconfigured system. In case of image from SAP Cloud Appliance Library (CAL), the image can only be used to set-up the sandbox system.	n/a	n/a
307	BASIC_1.5.01	Customize and configure application, maintain application, application support and application troubleshooting	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Service provider delivers systems which are technically configured on technical platform (e.g. SAP NetWeaver) level and ready to be operated. Any solution (e.g. SAP BW, SAP CRM, SAP EP) or customer specific configuration task is not included and must be performed by the customer.	Functional Application Management	F1
308	BASIC_1.8.03	Integrate installed systems into cloud operations environment	Standard Services	Performed One (1) time for each entirely new system. If the initial set-up is a migration, One (1) additional test run of the production (PRD) system is included. If the initial set-up is a conversion to S/4HANA, Two (2) additional test runs are included: One (1) for a non-production (QAS, DEV, etc.) system and One (1) for the productive (PRD) system. If the test run is not utilized for a non-production system, then it can be used for a production system with non-production timelines. Additional test runs are available as a billable service.	n/a	n/a
309	BASIC_1.8.03_PCE	Integrate installed systems into cloud operations environment - additional test run requests	Additional Service	For additional test run requests as described in BASIC_1.8.03.	n/a	n/a
310	BASIC_1.8.04	Enable system monitoring	Standard Services	Setup technical monitoring of system components only. Does not include monitoring of solutions, customer configuration, interfaces, connections and jobs which can be covered with additional services.	n/a	n/a
311	BASIC_1.8.22	Data transfer to service provider during onboarding using methods other than the provided standard data copy option	Optional Services	One (1) time service fee. Approach depends on chosen onboarding scenario and individual requirements, either using network connection or physical and encrypted media; shipment of physical media done at customers risk.	n/a	n/a
312	BASIC_1.8.22A_PCE	Download data from BLOB (binary large object) storage to managed server	Standard Services	Used to copy data from on-premise to a target server in the managed environment. Data transfer from cloud storage (e.g. BLOB_S3_GCP) to managed server during onboarding.	n/a	n/a
313	BASIC_1.8.20	Provide special support to customer during onboarding - general	Additional Service	Depending on scope and approach of onboarding project customers may require technical assistance, e.g. whenever OS access is required; this type of onboarding support can be provided under this line item.	n/a	n/a
314	BASIC_1.8.20A	Provide special support to customer during onboarding – Brownfield Post-Migration Downtime Optimization Service	Additional Service	Subject to assessment and approval by Service Provider and provided on a case-by-case basis. Lead time of Two (2) months required. Optimize post processing timelines and activities performed during post migration. Reduce business downtime by using parallelism in manual activities. Includes: 1) Analysis of post migration activities to identify areas which can be optimized resulting in a reduction of business downtime required for typical migrations; 2) Where applicable, deployment of additional resources to perform manual post migration activities; 3) Pre-arranged activities that can reduce the number of action items required during the post processing execution.	n/a	n/a
315	BASIC_1.8.20_HC	Hypercare - project safeguarding service	Additional Service	The Hypercare enhanced service package helps safeguard critical phases of the solution lifecycle and provides a defined and intense suite of services and checks to support customers during critical project periods such as go-live, business cutover, migrations, etc. See separate service description document for details. A lead time of at least Ten (10) business days required.	n/a	n/a
316	BASIC_1.8.20_NP	Active entitlement for Non-Productive Systems weekend support	Additional Service	Availability of service and request to be validated with Service Provider.	n/a	n/a
317	BASIC_1.8.05	Integrate system with other systems and applications	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Create RFC and/or Java connections to satellite systems.	Application Operations	A1
318	BASIC_1.8.14	Implementation of SAP Best Practices and similar packages	Standard Services	Customer to inform SAP of the Best Practice (BP) activation requirement during initial provisioning, otherwise existing business client will be overwritten by the new client copy issued from Best Practices activation. Customer is responsible for defining/selecting Best Practice business of the selected country by providing completed Best Practice questionnaire document. BP activation is restricted to single country only in this service. BP activation can only be requested once per system landscape. All customizing that may be required after activation of the Best Practices content in order to meet requirements that differ from Best Practice scenarios is not part of this service. The implementation of "Best Practices for SAP S/4HANA" includes the activation of required business functions in client 000, the provisioning of a client with the desired client set-up alternative, and Best Practice scope items activation in the systems (if requested in the Best Practice questionnaire document provided by the customer). Best Practices scope items import and activation, if requested during system build, happens after the system is handed-over to the customer. Fiori technical enablement will be done in the (re-)created client. The activation of corresponding SAP Fiori Apps is not covered by this service.	n/a	n/a
319	BASIC_1.8.14A	Implementation of SAP Best Practices and similar packages for additional countries	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Customer to inform SAP of the Best Practice (BP) activation requirement during initial provisioning, otherwise existing business client will be overwritten by the new client copy issued from Best Practices activation. Customer is responsible for defining/selecting Best Practice business of the selected country by providing completed Best Practice questionnaire document. BP activation is restricted to single country per request only in this service. BP activation can only be requested once per system landscape. All customizing that may be required after activation of the Best Practices content in order to meet requirements that differ from Best Practice scenarios is not part of this service. The implementation of "Best Practices for SAP S/4HANA" includes the activation of required business functions in client 000, the provisioning of a client with the desired client set-up alternative, and Best Practice scope items activation in the systems (if requested in the Best Practice questionnaire document provided by the customer). Best Practices scope items import and activation, if requested during system build, happens after the system is handed-over to the customer. Fiori technical enablement will be done in the (re-)created client. The activation of corresponding SAP Fiori Apps is not covered by this service.	Application Operations	A1
320	BASIC_1.8.19	Configure SAP online help (local installation)	Standard Services	Once (1) per system; subject to contractual change request (CR) to cover increased infrastructure consumption and additional administrative efforts.	n/a	n/a
321	BASIC_1.8.21	Install ODBC Drivers to connect to external databases	Standard Services	On SLT/HANA SDS/BOBJ; customer needs to provide required software including appropriate usage rights for an installation in cloud; customer needs to provide specification for required connection (e.g. SSL/TLS).	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
322	BASIC_1.8.12	Increase system capacity by adding additional components (nodes, application servers etc.) or moving existing system to larger infrastructure (e.g. larger database server) - requires infrastructure change	Optional Services	Contractual change request (CR) required to reflect higher infrastructure consumption, subject to additional service fees. If this is a software or configuration only type change then task BASIC_1.8.12A should be used.	n/a	n/a
323	BASIC_1.8.10	Data handover from service provider to customer - one time	Standard Services	Delivered One (1) time per contract duration period. Efforts for a One (1) time data handover (creation of export/backup using SAP standard tools and transfer to media) as part of a contract or system termination are included in the service. Planning, coordination, media and logistics of shipment as well as all associated costs are customer responsibility. Any other occurrence of data handover is an additional service.	n/a	n/a
324	BASIC_1.8.13	Data handover from service provider to customer - additional requests	Additional Service	Efforts for additional data handover (creation of export/backup and transfer to media). Planning, coordination, media and logistics of shipment as well as all associated costs are customer responsibility. Note: One (1) time per contract duration period handover is included as a Standard Service per BASIC_1.8.10.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
		<b>Incident Management</b>				
326	BASIC_1.16.01	Operate Call Center receiving incidents 24x7x365	Standard Services	24x7 support only in English language, local languages where available during business hours and explicitly agreed with the customer. Further details are described in the Support Schedule for Cloud Services available from the SAP Trust Center.	n/a	n/a
327	BASIC_1.16.02	Incident processing - Qualification and prioritization of the incidents - Initiate incident resolution - Track incident resolution progress - Incident escalation as defined by escalation process - Determine incident resolution or workaround - Implement solution or workaround - Verify incident resolution - Inform customer about incident resolution	Standard Services		n/a	n/a
328	BASIC_1.16.03	Sign-off/Approve solution and confirm incident resolution	Excluded Tasks		n/a	n/a
329		<b>Event detection and notification ("monitoring")</b>				
330	BASIC_1.8.17	Monitoring and event detection of SAP system availability and critical system states	Standard Services	Monitoring requirements are defined based on Roles & Responsibilities and SLAs; activated monitoring metrics and used thresholds are subject to constant change and tuning.	n/a	n/a
331	BASIC_1.7.07	Monitor critical business transactions	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Manual monitoring; effort based per execution.	Customer Application Monitoring	M2
332		<b>General Operations</b>				
333	BASIC_1.8.08	Start/Stop managed systems	Standard Services	Used for a variety of scenarios including, but not limited to: daylight saving/standard time adjustment; restarting managed systems with reboot option; restarting additional application servers, restarting SAP Solution Manager diagnostic agent, etc.	n/a	n/a
334		<b>LINE INTENTIONALLY LEFT BLANK</b>				
335	BASIC_1.1.15	Troubleshoot technical issues in managed systems	Standard Services	For technical issues only; application related problems must be resolved by the customer.	n/a	n/a
336	BASIC_1.1.14	Assist customers with tasks in their area of responsibility if OS access is required	Standard Services	In cases where the execution of tasks requires activities to be performed within the OS level and for which the customer is responsible according to this document. Customers will not get OS access to managed servers within cloud. The service provider will support the customer, e.g. by taking over the tasks or by providing other methods to execute tasks. This line item only applies to infrequent/occasional assistance; projects requiring regular, longer and more general OS access for implementation, development and support cannot be supported via this line item.	n/a	n/a
337	BASIC_1.1.16	Regular analysis and maintenance of SAP system profile parameters	Standard Services	<a href="#">Process flow - additional information available</a> . Service provider is responsible for executing this task as it can have an impact on system performance and availability. Provider will provide recommendations for technical system parameters; Provider will also adjust parameters by customer request except for certain standardized settings required to maintain system stability or security.	n/a	n/a
338		<b>SAP Security Management</b>				
339	BASIC_1.2.22	Define and implement security concept for application	Excluded Tasks	Customer may engage other SAP services to define and implement security concept for application.	n/a	n/a
340	BASIC_1.2.23	Define and implement infrastructure security concept	Standard Services		n/a	n/a
341	BASIC_1.2.19	Customer specific Security Audit Log analysis	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Audit Readiness	S4
342	BASIC_1.2.20	Analyze the SAP system and identify relevant SAP security notes	Standard Services	Security notes for installed systems can be evaluated and analyzed to identify critical notes relevant for the ABAP-stack. This task is automatically delivered if Customer has relevant CAS Package(s). Customers without relevant CAS Package(s) can check security notes on SAP for Me (formerly known as the ONE Support Launchpad) and create a Service Request.	n/a	n/a
343	BASIC_1.2.27	Implement SAP Security Notes - SAP Basis / ABAP related	Standard Services	Implement SAP Security Notes for SAP Basis without manual activities. This task is automatically delivered if Customer has relevant CAS Package(s). Customers without relevant CAS Package(s) can check security notes on SAP for Me (formerly known as the ONE Support Launchpad) and create a Service Request.	n/a	n/a
344	BASIC_1.2.28	Implement relevant SAP Security Notes - Application related (ABAP and JAVA stack only)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Relevant SAP Security Notes with and without manual activities will be analyzed and implemented in DEV systems. Perform transport of implemented Notes to QAS and PROD systems (for ABAP stack only). Analyze relevant Security Notes for Java and create service request on behalf of Customer to initiate implementation of required Java components. Testing of implemented Notes is Customer's responsibility.	Application Security Updates	S1
345	BASIC_1.2.18	Administer customer users (e.g. user creation, change, deletion, maintenance of user profiles, roles, authorizations, source data and passwords)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Secure Users & Authorizations	S2
346	BASIC_1.2.15	Maintain user profiles, roles, authorizations, source data and passwords in client 000	Standard Services		n/a	n/a
347	BASIC_1.2.16	Provide access to client 000 for customer	Standard Services	Restricted, predefined profile only; limited set of users provided; service provided on request only.	n/a	n/a
348	BASIC_1.2.25	Design / Architecture of Single Sign On (SSO) for systems in cloud landscape	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
349	BASIC_1.2.24	Implementation of Single Sign On (SSO) for systems in cloud landscape	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
350	BASIC_1.2.21	Provide audit log information to customers	Standard Services	By request only to support incident investigations, but not on a regular basis e.g. to monitor administrative activities. Format, content and procedure used will be determined by SAP and by general security and data protection policies.	n/a	n/a
351	BASIC_1.2.26_AE	Update Global Change parameters and default system settings	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
352	BASIC_1.2.30	Security Risk Check	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Provides a detailed profile of the Customer's system landscape related to security risks and initiate remediation to address areas of high risk.	Security Risk Check	S6
353	BASIC_1.2.31	Security for Interface	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Provides guidance for secure access to remote function call (RFC) modules by implementing a secure framework for RFC modules and restricting access to needed modules only.	Security for Interface	S7
354	BASIC_1.2.32	Application Security Monitoring	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Monitor Customer's applications related to security statuses. Report Security KPIs and remediation activities.	Application Security Monitoring	S8



Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
355		<b>SAP Infrastructure and Application Logging service (LogServ)</b>			-	-
356	BASIC_1.2.33	Enable SAP Infrastructure and Application Logging service (LogServ) for SAP Business Technology Platform	Optional Services	The SAP Infrastructure and Application Logging service (LogServ) allows for centralization, real-time collection, retention, and recovery of logs for systems, applications and other services.	n/a	n/a
357	BASIC_1.2.34	LogServ activities on Customer SIEM	Excluded Tasks	Service does not include the following activities in Customer SIEM: validation and confirmation of receiving logs; creating correlation rules; or monitoring of offenses.	n/a	n/a
358		<b>Homogeneous system copy (aka System refresh)</b>				
			<b>A homogenous system copy is defined either as 1) a new system which is built as copy from an existing system in a landscape within the same data center or hyperscaler platform or 2) a "data refresh" overwriting the database of an already existing system in the landscape within the same data center or hyperscaler platform. Copies for non-NetWeaver systems is not possible during initial build phase. After initial build phase copies for non-NetWeaver systems need to be evaluated on a case by case basis and is not possible in all cases.</b>			
359	BASIC_1.3.01	Homogeneous system copy (aka System refresh) for non-Netweaver systems during initial build phase.	Excluded Tasks	Only available after initial build phase is complete.	n/a	n/a
360	BASIC_1.3.11	Pre-processing tasks which are not covered by PCA (Post-Copy Automation) - I.e. export customer defined tables with 'old' configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Additional examples of tasks which are not covered by PCA include but are not limited to: saving configuration for HANA remote connections; implementing "Export Customer Defined Configuration Tables" for use in PCA; and transaction screenshots defined by customer.	Application Operations	A1
361	BASIC_1.3.10	Homogeneous system copy - post build phase (Planning, preparations, checks, database backup, database restore, technical post processing tasks, test of technical system functionality) - Intra-regional (same region) refresh only	Standard Services	<a href="#">Process flow - additional information available</a> . Up to Six (6) refreshes per SID, per contract year, are included; additional refreshes are available as a chargeable request. Only available after initial build phase is complete. Note: copies for non-NetWeaver systems need to be evaluated on a case by case basis and is not possible in all cases. Intra-regional (same region) only (e.g. restore a system in region 2 from backup from region 1 is not possible). Extra-regional (between region) refreshes are available as an Optional Service. Does not include activities such as data masking, scrambling etc.	n/a	n/a
362	BASIC_1.3.10A	Homogeneous system copy - post build phase (Planning, preparations, checks, database backup, database restore, technical post processing tasks, test of technical system functionality) - Extra-regional (between regions) refresh	Optional Services	<a href="#">Process flow - additional information available</a> . Extra-regional (between region) refreshes are available as an Optional Service. Note: This service is not available in all regions and/or datacenters and is not available from all service providers. Does not include activities such as data masking, scrambling etc.	n/a	n/a
363	BASIC_1.3.10_PCE	Homogeneous system copy - additional requests	Additional Service	<a href="#">Process flow - additional information available</a> . Requests for additional refreshes beyond entitlement noted in BASIC_1.3.10. Available after initial build phase is complete. Note: copies for non-NetWeaver systems need to be evaluated on a case by case basis and is not possible in all cases. Intra-regional (same region) only (e.g. restore a system in region 2 from backup from region 1 is not possible). Extra-regional see Optional Service BASIC_1.3.10A.	n/a	n/a
364	BASIC_1.3.07	Post processing tasks e.g. Embedded Search, BDLS - pre-existing systems	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	For existing/live systems	Application Operations	A1
365	BASIC_1.3.07A	Post processing tasks e.g. Embedded Search, BDLS - new builds, post migration switch back to main instance	Standard Services	For new builds for brownfield system-copy scenarios	n/a	n/a
366		<b>Heterogeneous system copy (aka System migration)</b>				
367	BASIC_1.14.01	Heterogeneous system copy	Standard Services	Scope, approach and price subject to individual planning depending on circumstances and requirements; change request (CR) required for infrastructure changes.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
368		<b>Release Management</b>			.	.
369	BASIC_1.5.13A	Install new software entities in the system after initial customer handover during Onboarding (applies to e.g. add-ons and other sorts of additional solution packages)	Standard Services	<a href="#">Process flow - additional information available.</a> Contractual Change Request (CR) required in case of changed managed service scope or increased infrastructure consumption.	n/a	n/a
370	BASIC_1.5.13B	Install new content in the system after initial customer handover during Onboarding (applies to e.g. languages, content packages etc.)	Standard Services	<a href="#">Process flow - additional information available.</a> Contractual Change Request (CR) required in case of changed managed service scope or increased infrastructure consumption.	n/a	n/a
371	BASIC_1.5.03	Implement SAP Notes, transport-based corrections instructions (TCI), and other types of manual corrections (corrections not provided as software correction package) in managed system (notes and corrections required to fix application related issues)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Fixing issues that fall into the responsibility of the customer per this Roles and Responsibilities document and which are therefore not covered by the respective Standard Service for technical SAP Note implementation are considered "application" related and corresponding SAP Notes would be applied as defined in this task. This would typically belong to the application layer and/or presentation layer of the NetWeaver as well as S/4-stack.	Application Operations	A1
372	BASIC_1.5.04	Implement SAP Notes, transport-based corrections instructions (TCI), and other types of manual corrections (corrections not provided as software correction package) in managed system (notes required to fix issues related to technical SAP components)	Standard Services	Dependent on the criticality of repair and only if no appropriate Support Package is available, fixing issues that fall into the responsibility of Provider per the Roles and Responsibility and/or require activities which cannot be performed by customer are considered "technical" and corresponding SAP notes would be applied as defined in this task. The topic area of the respective note can only serve as a rough indicator, since only a subset of BC-* topic areas are covered by the standard service. The two areas, where the service mostly applies are BC-CST and BC-DB. Any post installation tasks required as per the SAP Note in question which is not technical in nature (e.g. application related settings/manual code creation in customer namespace or manual activities required in SAP namespace) need to be performed by the customer.	n/a	n/a
373	BASIC_1.5.05	Apply Application SAP Notes for License Auditing	Standard Services	Automated License Metering allows automatic measurement of user and engine consumption to check compliance against customer licenses. Dependent on the criticality of repair of License Metering functionality, and only if no appropriate Support Package is available; fixing issues that fall into the responsibility of Service Provider per the Roles and Responsibility. This typically belongs to the application layer and/or presentation layer of SAP NetWeaver as well as the S/4-stack. SAP Notes which belong to application components like FI, CO etc. are included. Any post-installation tasks required per the SAP Note in question which is not technical in nature (e.g. application related settings/manual code creation in Customer namespace or manual activities required in SAP namespace) need to be performed by the Customer.	n/a	n/a
374	BASIC_1.5.06	Implementation of patches for system software running on OS level, e.g. SAP kernel	Standard Services	<a href="#">Process flow - additional information available.</a> May require additional system downtime.	n/a	n/a
375	BASIC_1.5.21	Implement kernel patches using Rolling Kernel Update Service	Standard Services	To keep any adverse effects on business operations to a minimum when importing a new kernel version, instances are restarted one after the other. This means that during this procedure at least one application server instance is always available for business operations. Minimum Eligibility: A minimum of Two (2) application servers are required to execute the service automatically and with minimized system downtime. The service can be used as of SAP kernel release 741 and SAP_BASIS equal to or greater than 740 SP5. This service is only for SAP ABAP systems. This service does not include the configuration an additional gateway in the ASCS instance because this gateway will fail when the ASCS instance is restarted.	n/a	n/a
376	BASIC_1.5.09	Implement updates to the managed SAP solution using standard tools and methods	Standard Services	<a href="#">Process flow - additional information available.</a> The term "update" denotes the change to a new minor release of the hosted SAP software, typically focused on bug fixes and small enhancements. The terminology for such events differs within the SAP portfolio, however frequently used terms in this context are "patch", "Support Package" and the like; this line item also includes the implementation of S/4HANA Feature Pack Stacks (FPS) but does not include the upgrade of S/4HANA to the next major release; the release sequence and the categorization of versions for each SAP product is available in the Product Availability Matrix (PAM) in SAP Service Marketplace; if a particular SAP component is not modelled in the PAM, this activity can be considered an "update" for that component unless where explicitly noted; this line item does not include the usage of more sophisticated update approaches like nZDT/ZZDO/Downtime Minimization etc.; Requires standard scheduled downtime to implement. Any post installation tasks required which is not technical in nature (e.g. application related settings/manual code creation in customer namespace or manual activities required in SAP namespace) need to be performed by the customer. Available for systems maintained in an SAP Enterprise Cloud Services (ECS) environment for which SAP is the Service Provider. This service can be requested only after completing a migration by a Partner if applicable.	n/a	n/a
377	BASIC_1.5.11	Implement updates or upgrades to the managed SAP business software - ABAP solution using Zero Downtime Option (ZDO) of SUM which is part of the Maintenance Downtime Minimization Service	Additional Service	The term "update" denotes the change to a new minor release of the hosted SAP software, typically focused on bug fixes and small enhancements. The terminology for such events differs within the SAP portfolio, however frequently used terms in this context are "patch", "Support Package" and the like; this line item also includes the implementation of S/4HANA Feature Pack Stacks (FPS); the release sequence and the categorization of versions for each SAP product is available in the Product Availability Matrix (PAM) in SAP Service Marketplace; Note: any implementation of updates or upgrades may require additional system downtime or pre-requisites for system resources including but not limited to additional memory, CPU, and a QA or Pre-production system to perform testing and validation. If system resources are not available in the existing customer landscape they will need to be provided via a change request (CR) and may result in additional service fees. Requires minimal scheduled downtime to implement. Any post installation tasks required which are not technical in nature (e.g. application related settings/manual code creation in customer namespace or manual activities required in SAP namespace) need to be performed by the customer. Supported as per SAP Notes 2163060 and 2707731 - Prerequisites and Restrictions of Zero Downtime Option of SUM for SAP Business Suite and S/4 HANA.	n/a	n/a
378	BASIC_1.5.11B	Implement upgrades of an SAP ABAP based system with Near Zero Downtime Maintenance (nZDM) of Software Update Manager (SUM)	Additional Service	The term "version upgrade" denotes the change to a new major release of the hosted SAP software, typically including functional enhancements; besides upgrades this also includes the implementation of SAP Enhancement Packages; the release sequence and the categorization of versions for each SAP product is available in the Product Availability Matrix (PAM) in SAP Service Marketplace; 3rd Party software excluded. Available for systems maintained in an SAP Enterprise Cloud Services (ECS) environment for which SAP is the Service Provider. This service can be requested only after completing a migration by a Partner if applicable. Note: any implementation of upgrades may require additional system downtime or pre-requisite system resources including, but not limited to additional memory, CPU, and a QA or pre-production system to perform testing and validation. If system resources are not available in the existing customer landscape they will need to be provided via a change request (CR) and may result in additional service fees. Requires minimal scheduled downtime to implement. Any post installation tasks required which are not technical in nature (e.g. application related settings/manual code creation in customer namespace or manual activities required in SAP namespace) need to be performed by the customer. Supported as per SAP Note 1678565 - Prerequisites and restrictions of nZDM (near-Zero Downtime Maintenance) for ABAP-based solutions.	n/a	n/a
379	BASIC_1.5.10	Ongoing maintenance of system languages, e.g. performing language fill-up	Standard Services	Available for systems maintained in an SAP Enterprise Cloud Services (ECS) environment for which SAP is the Service Provider. This service can be requested only after completing a migration by a Partner if applicable.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
380	BASIC_1.1.01	Version upgrade/update of SAP Software: planning and coordination	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	The term "update" denotes the change to a new minor release of the hosted SAP software, typically focused on bug fixes and small enhancements. The terminology for such events differs within the SAP portfolio, however frequently used terms in this context are "patch", "Support Package" and the like; this line item also includes the implementation of S/4HANA Feature Pack Stacks (FPS). The release sequence and the categorization of versions for each SAP product is available in the Product Availability Matrix (PAM) in SAP Service Marketplace. The term "version upgrade" denotes the change to a new major release of the hosted SAP software, typically including functional enhancements; besides upgrades this also includes the implementation of SAP Enhancement Packages; the release sequence and the categorization of versions for each SAP product is available in the Product Availability Matrix (PAM) in SAP Service Marketplace; 3rd Party software excluded. Available for systems maintained in an SAP Enterprise Cloud Services (ECS) environment for which SAP is the Service Provider. This service can be requested only after completing a migration by a Partner if applicable.	Release Version Upgrade	RM1
381	MOVE_1.1.06	SAP Readiness Check for SAP S/4HANA upgrades	Standard Services	The service can only be applied to the SAP S/4HANA landscape indicated in the contract. Includes implementation of SAP Readiness Check for SAP S/4HANA upgrades Notes in the corresponding system and generation of the required files with subsequent handover of the export file to the customer. Customer must submit the request for SAP Readiness Check report and dashboard generation or SAP will perform this on behalf of the customer. Target scenario for this service is an SAP S/4HANA upgrade.	n/a	n/a
382	BASIC_1.5.07	Version upgrade of SAP Software: Execute technical upgrade tasks	Standard Services	The term "version upgrade" denotes the change to a new major release of the hosted SAP software, typically including functional enhancements; besides upgrades this also includes the implementation of SAP Enhancement Packages; the release sequence and the categorization of versions for each SAP product is available in the Product Availability Matrix (PAM) in SAP Service Marketplace; 3rd Party software excluded. Available for systems maintained in an SAP Enterprise Cloud Services (ECS) environment for which SAP is the Service Provider. This service can be requested only after completing a migration by a Partner if applicable.	n/a	n/a
383	BASIC_1.5.22	Version update of SAP Software: Pre- and Post BASIS Tasks	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	The term "update" denotes the change to a new minor release of the hosted SAP software, typically focused on bug fixes and small enhancements. The terminology for such events differs within the SAP portfolio, however frequently used terms in this context are "patch", "Support Package" and the like; this line item also includes the implementation of S/4HANA Feature Pack Stacks (FPS). The release sequence and the categorization of versions for each SAP product is available in the Product Availability Matrix (PAM) in SAP Service Marketplace. Examples for this service include: run simplification check; unlock objects; remove inactive objects; implement update related notes; support modification adjustment.	Release Version Upgrade	RM1
384	BASIC_1.5.22A	Version upgrade of SAP Software: Pre- and Post BASIS Tasks	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Examples for this service include, run simplification check; unlock objects; remove inactive objects; implement upgrade related notes; support modification adjustment for technical issues, supporting and monitoring of Silent Data Migration. The term "version upgrade" denotes the change to a new major release of the hosted SAP software, typically including functional enhancements; besides upgrades this also includes the implementation of SAP Enhancement Packages; the release sequence and the categorization of versions for each SAP product is available in the Product Availability Matrix (PAM) in SAP Service Marketplace.	Release Version Upgrade	RM1
385	TO_NWABAP_1.5.08	Adjust repository objects as part of software changes	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Execution of adjustments in SPDD/SPAU for SAP objects. Customer objects in SPDD/SPAU require customer's decision during execution.	Release Version Upgrade	RM1
386	BASIC_1.5.08	Execute application related technical error handling tasks as part of the technical execution process for upgrades and updates and for Change Management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Troubleshoot and SAP note correction implementation related to technical upgrade or update activities. Functional decisions to be confirmed by Customer's functional team or SAP product support if required during implementation of resolution.	Release Version Upgrade	RM1
387	BASIC_1.5.20 / MOVE_1.3.02	Conversion of SAP ERP and SAP BW systems to SAP S/4HANA and SAP BW4/HANA	Additional Service	"Conversion" process denotes the switch or movement from an older hosted SAP ERP software version to an SAP S/4 release, and typically involves SAP Readiness Check, Simplification Items Catalog, Business function (de)activation with tools like SUM/DMO, Custom code optimization, functional/integration testing etc. This task is limited to services which cannot be performed by the customer e.g. SUM tool, activities in client 000 etc. Overall responsibility for SAP S/4HANA conversion which includes (but not limited to) SAP Readiness check, simplification items, Maintenance planner, Application tasks, custom code adjustment, functional/integration testing etc. for conversion process is the responsibility of the customer. This line item does not include the usage of more sophisticated update approaches like nZDT/ZDO/Downtime Minimization etc. Standard scheduled downtime is required to implement. Any post installation tasks required which is not technical in nature (e.g. application related settings/manual code creation in customer namespace or manual activities required in SAP namespace, SPAU/SPDD, simplification items etc.) need to be performed by the customer. Depending on complexity of conversion involvement of other SAP services might be required. This service only applies to managed systems.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
<b>388</b>		<b>Proactive services</b>				
389	BASIC_1.7.02	Prepare SAP service sessions session by maintaining RTCCTOOL	Standard Services	Performed only for productive systems; activities which have to be performed within the customer's SAP Solution Manager are the customer's responsibility.	n/a	n/a
390	BASIC_1.7.03	Analysis of SAP Service Session reports (incl. EarlyWatch Alert) for systems operated in the cloud for findings and recommendations regarding aspects within the service scope of cloud (technical operations)	Standard Services	Performed only for productive systems.	n/a	n/a
391	BASIC_1.7.09	Analysis of SAP Service Session reports (incl. EarlyWatch Alert) for systems operated in the cloud. Provide recommendations for changes related to SAP application (outside technical operations scope of standard service).	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Performed only for productive systems.	Application Operations	A1
392	BASIC_1.7.11_AE	Process chain retriggering or cancellation	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operation or Customer Application Monitoring	A1, M2
<b>393</b>		<b>System performance management</b>				
394	BASIC_1.12.01	Initial assessment of system performance issues	Standard Services	Service provider performs an initial assessment of identified or reported system performance issues to identify potential root causes. The primary scope of this assessment is to quickly check performance relevant technical building blocks of the service. This may include infrastructure, database and technical SAP stack for root causes and based on the result, determine whether the root cause is likely to be technical or application related.	n/a	n/a
395	BASIC_1.12.03	Troubleshoot SAP system performance issues (technical root causes within cloud service scope)	Standard Services	Based on the result of the initial assessment; troubleshooting by service provider is only performed in situations caused by technical issues within the service scope and where the system performance lies outside usual and expectable behavior (e.g. as it has shown in the past in comparable load situations).	n/a	n/a
396	BASIC_1.12.02	Performance and Benchmark Service	Optional Services	Includes the definition of performance metrics and measurements against those to identify deviations in system behavior; a detailed service description is available.	n/a	n/a
397	BASIC_1.12.05	Perform load test execution	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Demonstrate the load capabilities of the target SAP system based on the software and hardware configuration. Identify potential scalability bottlenecks with respect to the target environment. Simulation of end user behavior. Maximum 500 concurrent users.	Performance Testing	P1
398	BASIC_1.12.06	Monitoring standard performance KPI's against SAP Best Practice thresholds	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Alert handling, analysis, recommendation management and remediation initiation.	Core Performance Management	P4
399	BASIC_1.7.06	Analyze and troubleshoot performance issues (root causes outside service scope and application related root causes)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	In some situations service provider might be able to support the customer using Application Management as a CAS service.	Performance Optimization	P2
400	BASIC_1.7.12_AE	Identify the root cause of failing KPIs and define preventive/corrective actions and/or possible countermeasures	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Performance Optimization or Core Performance Management	P2, P4
401	BASIC_1.7.08	Review and optimize customer code to improve system performance and stability	Excluded Tasks	Customer may engage other SAP services.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
<b>402</b>		<b>Certificate Handling</b>				
403	BASIC_1.11.01	Generate Certificate Signing Request (CSR)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Except LoadBalancers, Web Dispatchers, Data Services, SAP Business Technology Platform (formerly SAP Cloud Platform) Integration - Data Services Agent, BO, SAProuter (for SEEBURGER integration only), and other systems; for these systems service provider will generate the CSR and hand it over to the customer for further processing.	Application Operations	A1
404	BASIC_1.11.09	Generate / Renew / Extend Certificate Signing Request (CSR) for LoadBalancers, Web Dispatchers, Data Services and BO systems	Standard Services		n/a	n/a
405	BASIC_1.11.02	Send certificate signing request to Certificate Authority	Excluded Tasks		n/a	n/a
406	BASIC_1.11.08	Create SSL server / client identity with key pair	Standard Services		n/a	n/a
407	BASIC_1.11.04	System (OS Level) configuration to enable SSL/TLS	Standard Services		n/a	n/a
408	BASIC_1.11.05	System (Application Level) configuration to enable SSL/TLS	Standard Services	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: Establish the SSL Connection to SAP Business Technology Platform (formerly SAP Cloud Platform) via TA STRUST. In SAP-owned global account. Limited to S/4HANA and SAP ERP Central Component (SAP ECC) deployments.	n/a	n/a
409	BASIC_1.11.07	Implement signed certificate for LoadBalancers, Web Dispatchers, Data Services, SAP Business Technology Platform (formerly SAP Cloud Platform) - Data Services Agent and BO systems	Standard Services	Related to Fiori enablement only. Customer has to provide signed certificates	n/a	n/a
410	BASIC_1.11.10	Implement other signed certificate to managed system	Standard Services	Related to Fiori enablement only. Other than LoadBalancers, Web Dispatchers, Data Services, SAP Business Technology Platform (formerly SAP Cloud Platform) - Data Services Agent, BO, and other systems.	n/a	n/a
411	BASIC_1.11.06	Monitor validity period of certificates	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Customer to provide URL for certificate check (e.g. FLP). Manual monitoring; effort based per execution.	Application Monitoring or Customer Application Monitoring	M1, M2
412	BASIC_1.11.11	Add or Renew of SSL certificate	Standard Services		n/a	n/a
413	BASIC_1.11.12	Renewal of Expiring Certificates	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	For new SAP standard certificate in trust only.	Application Monitoring or Customer Application Monitoring	M1, M2

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
414		<b>Disaster Recovery</b>	<b>Disaster Recovery is an Optional Service and is only provided in the managed service if Disaster Recovery is part of the contract/SOW/Order Form and/or added with a Change Request.</b>		-	-
415	BASIC_1.9.01	Implement disaster recovery set-up according to architecture blueprint and contractual specifications. Test managed service internal data center and technical system infrastructure.	Optional Services	Performed only for productive systems; only included in service if disaster recovery solution is part of the contract/SOW/Order Form. Managed landscape internal testing requires additional downtime.	n/a	n/a
416	BASIC_1.9.02	Develop and use disaster recovery procedures for database and file system replication only	Optional Services	Performed only for productive systems; only included in service if disaster recovery solution is part of the contract/SOW/Order Form.	n/a	n/a
417	BASIC_1.9.03	Ongoing management of disaster recovery architecture: monitoring of data replication to secondary site including troubleshooting	Optional Services	Performed only for productive systems; only included in service if disaster recovery solution is part of the contract/SOW/Order Form.	n/a	n/a
418	BASIC_1.9.04	Ongoing management of disaster recovery architecture: maintenance and change management for systems at secondary site to ensure system consistency including troubleshooting	Optional Services	Performed only for productive systems; only included in service if disaster recovery solution is part of the contract/SOW/Order Form.	n/a	n/a
419	BASIC_1.9.05	Develop and maintain disaster recovery procedures for those areas and aspects of the service which are in customer responsibility	Excluded Tasks	Included customer infrastructure, connectivity to managed system interfaces (including RFC connections, connection details in other integrated systems), organizational measures and processes etc.	n/a	n/a
420	BASIC_1.9.06	Execute failover during disaster recovery test (DB, application and cnames)	Optional Services	Note: This Service is not applicable for Short Distance DR offering, HA/DR architecture scenarios; DB inserts/updates/deletes done during testing will be lost. Performed only for productive system; on request; maximum One (1) per calendar year (any further test will be charged as billable service); only included in service if disaster recovery solution is part of the contract/SOW/Order Form; customer is responsible for creation and execution of functional tests and customer must support in certain technical aspects, e.g. regarding interfaces, connectivity etc.	n/a	n/a
421	BASIC_1.9.10	Execute failover during disaster recovery test (DB, application and cnames) - additional test	Additional Service	Note: This Service is not applicable for Short Distance DR offering, HA/DR architecture scenarios; DB inserts/updates/deletes done during testing will be lost. Performed only for productive system; on request; maximum One (1) per calendar year (any further test will be charged as billable service); only included in service if disaster recovery solution is part of the contract/SOW/Order Form; customer is responsible for creation and execution of functional tests and customer must support in certain technical aspects, e.g. regarding interfaces, connectivity etc.	n/a	n/a
422	BASIC_1.9.09	Execute online disaster recovery tests (data center and technical system infrastructure only); primary systems remain accessible	Additional Service	Note: This Service is not applicable for Short Distance DR offering, HA/DR architecture scenarios; Not available on all Hyperscalers. Also known as fencing. Performed only for productive system; on request; only possible to be delivered if disaster recovery solution is part of the contract/SOW/Order Form; customer must support in certain technical aspects, e.g. regarding interfaces, connectivity etc.	n/a	n/a
423	BASIC_1.9.07	Execute productive failover in case of an officially declared disaster by service provider - all HA/DR architecture scenarios	Optional Services	Note: This Service is applicable for Short and long distance DR; True disaster declaration for all HA/DR architecture scenarios or Short Distance DR. "Disaster" shall describe a catastrophic event causing widespread damage/destruction, typically not restricted to one individual system or landscape but larger parts of the overall infrastructure; therefore disaster recovery is no measure to overcome outages of isolated systems due to hardware or software incidents; performed only for productive systems; only included in service if disaster recovery solution is part of the contract/SOW/Order Form	n/a	n/a
424	BASIC_1.9.11	Mixed High Availability (HA)/Disaster Recovery (DR): Execute productive failover for a specific SID and invert replication vector	Optional Services	Note: This Service is not applicable for long distance DR; Full productive failover. For Mixed HA/DR architecture. Not available on all Hyperscalers. Maximum of One (1) full-cycle, customer requested failover per calendar year, per SID is included ("flip-flop"). Failovers which are the result of SAP-declared disasters do not count against maximum. Additional customer requested failovers are billable. Only included in service if disaster recovery solution is part of the contract/SOW/Order Form.	n/a	n/a
425	BASIC_1.9.12	Mixed High Availability (HA)/Disaster Recovery (DR): Execute productive failover for a specific SID and invert replication vector - additional customer requests	Additional Service	Note: This Service is not applicable for long distance DR; Full productive failover. For Mixed HA/DR architecture. Not available on all Hyperscalers. Maximum of One (1) full-cycle, customer requested failover per calendar year, per SID is included ("flip-flop"). Failovers which are the result of SAP-declared disasters do not count against maximum. Additional customer requested failovers are billable. Only included in service if disaster recovery solution is part of the contract/SOW/Order Form.	n/a	n/a
426		<b>Operations Extension</b>	<b>These services provide possible extensions to areas of Incident, Change and Event Management beyond the standard scope of services.</b>		-	-
427	BASIC_1.15.01	Incident Management: Troubleshoot technical/non-functional incidents not included in Standard Services as per R&R Definition	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Only available for managed systems.	Application Operations	A1
428	BASIC_1.15.02	Change Management: Changes of technical system configuration not included in Standard Services as per R&R Definition	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Only available for managed systems.	Application Operations	A1
429	BASIC_1.15.03	Event management: Monitor technical/non-functional event types not included in Standard Service as per R&R Definition	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Only available for managed systems.	Application Operations	A1
430	BASIC_1.15.04	Service Request Fulfillment: Perform Service Request Fulfillment for technical/non-functional task not included in Standard Service as per R&R Definition	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Only available for managed systems.	Application Operations	A1

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
431		<b>E - NetWeaver Operations (ABAP and Java)</b>	<b>Depending on technical conditions some tasks listed in this section are applicable to only one of the two platforms (NW ABAP or NW Java).</b>			
432		<b>General NetWeaver Operations</b>				
433	TO_NWABAP_1.1.04	Analyze SAP system log and fix technical failures included in scope of services	Standard Services	May require customer assistance.	n/a	n/a
434	TO_NWABAP_1.1.06	Monitor update processes within SAP software to avoid system operations issues	Standard Services	Service provider informs customer of update process problems; RCA methods provided by SAP Enterprise Support may be used to find application related root causes for updates.	n/a	n/a
435	TO_NWABAP_1.1.07	Analyze update terminations, determine business impact and appropriate action	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	With regards to application issues and impact.	Application Operations	A1
436	TO_NWABAP_1.1.08	Clean up terminated updates	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
437	TO_NWABAP_1.1.10	Analyze lock entries, determine business impact and appropriate action	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
438	TO_NWABAP_1.1.11	Check/clear lock entries	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
439	TO_NWABAP_1.1.12	Check for ABAP dumps to detect serious system issues	Standard Services	Service provider informs customer in the event of serious application related issues that need to be resolved by the customer. Dumps relevant to provider's responsibility will be resolved by provider.	n/a	n/a
440	TO_NWABAP_1.1.22	ABAP dump check and classification	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Including application related dumps.	Application Operations	A1
441	TO_NWABAP_1.1.23	Analyze SAP application log and provide recommendations on fixing failures	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
442	TO_NWABAP_1.1.24	Reorganize qRFC/IRFC queues	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
443	TO_NWABAP_1.1.25	Check fastest growing tables in the SAP system and provide recommendations for archiving or reorganization	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Data Lifecycle Management or Data Volume Optimization	A1, D3, D6
444	TO_NWABAP_1.1.13	Administer SAP Logon Groups	Standard Services	The customer may perform this activity; if service provider is requested to perform the task, the design/definition must be provided by customer.	n/a	n/a
445	TO_NWABAP_1.1.26	Create/Update/Change the System-PSE (Personal Security Environment)	Standard Services	Customers may decide to perform this task themselves for convenience.	n/a	n/a
446	TO_NWABAP_1.1.16	Implement/update tools to ensure readiness for SAP support services	Standard Services	<a href="#">Process flow - additional information available.</a>	n/a	n/a
447	TO_NWABAP_1.1.20	Define archiving strategy	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
448	TO_NWABAP_1.1.21	Execution and monitoring of archiving process	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Increased infrastructure consumption is subject to a CR and additional service fees. Manual monitoring; effort based per execution. This task is only for execution of the archiving programs. The archiving set-up, retention configuration, investigate / troubleshooting of the unarchivable documents/objects is customer's responsibility.	Data Lifecycle Management	D3
449	TO_NWABAP_1.1.17	Manage Web Service Runtime (WSRT)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
450	TO_NWABAP_1.1.18	Configure technical RFC connections (TA SM59) to central systems managed by SAP used for system operations	Standard Services	Technical RFC connection = generic RFC connection required for all managed system based systems the same way, e.g. for monitoring configuration.	n/a	n/a
451	TO_NWABAP_1.1.19	Configure RFC connections (TA SM59) to technical systems managed by the customer and any application-related RFC connection	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
452	TO_NWABAP_1.1.27_AE	Termination of User activity related to identified expensive statement	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
453	TO_NWABAP_1.1.28_AE	Temporary change of heap or extended memory allocation using RSMEMORY	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
454	TO_NWABAP_1.1.29_AE	Termination of dialog work processes	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
455	TO_NWABAP_1.1.30_AE	ICM service restart on Non-responsive situation or post SSL certificate renewal	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
456	TO_NWABAP_1.1.31	Work process cancellation; Optimization of Batch Jobs load post analysis	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Monitoring or Customer Application Monitoring	M1, M2
457	TO_J2EE_1.1.01	Troubleshoot SAP J2EE in case of technical issues	Standard Services	For technical issues only; application related problems must be resolved by the customer.	n/a	n/a
458	TO_J2EE_1.1.02	SAP J2EE: adjust/configure Java applications	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
459	TO_NWABAP_1.1.32	Deactivate critical ICF services in SAP ABAP instance	Standard Services	Recommended that certain critical ICF services (32 ICF Services) must not be active for ABAP application servers in productive managed landscapes.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
		<b>SAP Client Operations</b>				
461	TO_NWABAP_1.2.01	Copy client within one SAP System (including analysis and resolution of technical issues)	Standard Services	<a href="#">Process flow - additional information available.</a> Process flow - additional information available. 500GB upper limit, above that threshold, only system copies are performed because of technical restrictions. Available for systems maintained in an SAP Enterprise Cloud Services (ECS) environment for which SAP is the Service Provider. This service can be requested only after completing a migration by a Partner if applicable.	n/a	n/a
462	TO_NWABAP_1.2.06	Delete client within one SAP System (including analysis and resolution of technical issues)	Standard Services	Available for systems maintained in an SAP Enterprise Cloud Services (ECS) environment for which SAP is the Service Provider. This service can be requested only after completing a migration by a Partner if applicable.	n/a	n/a
463	TO_NWABAP_1.2.02	Perform client export/import or remote client copy between SAP systems (including analysis and resolution of technical issues)	Standard Services	500GB upper limit, above that threshold, only system copies are performed because of technical restrictions. Does not include activities such as data masking, scrambling etc. Available for systems maintained in an SAP Enterprise Cloud Services (ECS) environment for which SAP is the Service Provider. This service can be requested only after completing a migration by a Partner if applicable.	n/a	n/a
464	TO_NWABAP_1.2.07	Pre-processing tasks, i.e. suspend jobs, lock users, export tables with 'old' configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
465	TO_NWABAP_1.2.08	Post processing tasks, i.e. Enterprise Search, Fiori Launchpad, unlock user, release jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
466	TO_NWABAP_1.2.05	Investigate and resolve application related issues (e.g. with certain database tables and fields)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
467	TO_NWABAP_1.2.09	Create new client	Standard Services	Make new entry in transaction SCC4. Filling of the client performed as sperate service request via client copy.	n/a	n/a
		<b>Interface Administration</b>				
469	TO_NWABAP_1.3.24	Create, execute, monitor, and troubleshoot batch input sessions	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Manual monitoring; effort based per execution.	Application Operations	A1
470	TO_NWABAP_1.3.25	Configure interface related functions (e.g. IDOCs, interface scripts and jobs, qRFC/IRFC/bgRFC, ALE scenarios etc.)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
471	TO_NWABAP_1.3.26	Monitoring of interfaces and interface related functions	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Application Monitoring or Customer Application Monitoring	A1, M1, M2
472	TO_NWABAP_1.6.03	Establish trust relationships between SAP NW ABAP systems	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Performed for Fiori launchpad enablement only.	Application Operations	A1
		<b>Job Scheduling</b>				
473	TO_NWABAP_1.4.09	Schedule (via SM36 --> standard jobs), check and monitor standard SAP system batch jobs to facilitate best-practice housekeeping of SAP system	Standard Services	Per SAP guidelines as defined in SAP Note 16083; additional SAP standard jobs to be reviewed and agreed with customer.	n/a	n/a
475	TO_NWABAP_1.4.14	Define production job schedule and dependencies based on business requirements	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
476	TO_NWABAP_1.4.15	Administer application batch jobs: - Monitor jobs - Troubleshoot according to troubleshooting handbook	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Application Monitoring or Customer Application Monitoring	A1, M1, M2
		<b>Transport Management</b>				
478	TO_NWABAP_1.5.10	Create and maintain transport domain in client 000 and transport directory	Standard Services	Migrating the transport method from HTC to HTA is not included in this task. Limited to a default setup. Customer specific domains or configurations not included.	n/a	n/a
479	TO_NWABAP_1.5.15_AE	Initial set-up of SAP transport management system (TMS) and configure transport routes	Standard Services	Limited to a default setup. Customer specific domains or configurations not included.	n/a	n/a
480	TO_NWABAP_1.5.16	Copy and delete SAP Transport cofiles and data files	Standard Services		n/a	n/a
481	TO_NWABAP_1.5.11	Initial maintenance of SAP transport management system after system build	Standard Services		n/a	n/a
482	TO_NWABAP_1.5.11A	Maintain SAP transport management system incl. configuration of transport routes and any further configuration (automatic import, scheduled import etc.)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Customer Deployment Planning and Execution	A1, DP2
483	TO_NWABAP_1.5.12	Initial configuration of Transport-based correction instructions (TCI) in client 000	Standard Services	Limited to a default setup. Customer specific domains or configurations not included.	n/a	n/a
484	TO_NWABAP_1.5.01	Set-up of CTS+	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations or Solution Manager - ChaRM	A1, DP3
485	TO_NWABAP_1.5.02	Transfer and release of transport orders	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Before importing critical transports the customer should inform service provider and perform the transport as a scheduled activity.	Application Operations or Customer Deployment Planning and Execution	A1, DP2
486	TO_NWABAP_1.5.03	Execute transports to move objects between SAP systems	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Customer Deployment Planning and Execution	A1, DP2
487	TO_NWABAP_1.5.04	Troubleshoot SAP Transport Management System	Standard Services	Only for technical transport problems, not related to problems due to the content of the transports, e.g. locked objects.	n/a	n/a



Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
488	TO_NWABAP_1.5.14	Set-up and configuration of CHaRM in SAP Solution Manager	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Solution Manager - ChaRM	DP3
489	TO_NWABAP_1.5.09	Testing and acceptance of object changes	Excluded Tasks		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
490		<b>Output Management</b>				
491	TO_NWABAP_1.7.01	Create, change and delete printers within SAP solution	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Service provider would only support printer types contained in SAP published guidelines.	Application Operations	A1
492	TO_NWABAP_1.7.02	Analyze faulty output requests (transaction SP01)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
493	TO_NWABAP_1.7.03	Reorganize SAP spool system to keep system clean	Standard Services	Via SAP standard batch job.	n/a	n/a
494	TO_NWABAP_1.7.04	Design and implementation of print forms	Excluded Tasks		n/a	n/a
495	TO_NWABAP_1.7.05	Lock/unlock SAP printers	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
496	TO_NWABAP_1.7.06	Check spooler table consistency to prevent printing issues	Standard Services	Via SAP standard batch job.	n/a	n/a
497	TO_NWABAP_1.7.07	Configure virtual spool (load balancing between spool processes)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
498	TO_NWABAP_1.7.08	Troubleshoot technical spool- and print-problems (within the SAP system)	Standard Services	Problems caused outside the SAP system/solution scope must be solved by the customer.	n/a	n/a
499	TO_NWABAP_1.7.09	Local printing and support	not offered	Creation and support of local OS printers at managed server instances.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
		<b>F - Server Provisioning (aka IaaS)</b>				
500			Service to provide server platform, e.g. to install and run non-SAP applications (IaaS); this section does not apply to server infrastructure used to run the managed SAP system landscape. Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler).			
		<b>Security Planning</b>				
501						
502	TO_SPROV_1.4.01	Provide application communication requirements	Excluded Tasks		n/a	n/a
503	TO_SPROV_1.4.02	Determine communication and security requirements	Excluded Tasks		n/a	n/a
504	TO_SPROV_1.4.03	Create and maintain security policies	Excluded Tasks		n/a	n/a
505	TO_SPROV_1.4.04	Determine security strategy and implementation plans	Excluded Tasks		n/a	n/a
506	TO_SPROV_1.4.05	Monitor and assess security strategies	Excluded Tasks		n/a	n/a
		<b>Hardware Operations</b>				
507						
508	TO_SPROV_1.5.03	Plan and conduct cloud infrastructure maintenance	Standard Services		n/a	n/a
		<b>Server Management</b>				
509						
510	TO_SPROV_1.6.11	Sizing of server infrastructure	Excluded Tasks	Virtual machines provided as specified in the SOW/Order Form; customer must ensure that sizing is accurate and provided VMs fulfil the requirements of the intended use case.	n/a	n/a
511	TO_SPROV_1.6.01	Provide server infrastructure	Standard Services		n/a	n/a
512	TO_SPROV_1.6.02	Provide licenses for OS	Standard Services	Licenses will be provided and charged by provider.	n/a	n/a
513	TO_SPROV_1.6.03	Install basic operating system	Standard Services	Supported OS: SUSE LINUX and MS Windows Server (most up-to-date versions).	n/a	n/a
514	TO_SPROV_1.6.04	Install OS patches and security updates	Excluded Tasks	Server will be shipped with the latest available security patch level, after hand over customer is responsible for updates.	n/a	n/a
515	TO_SPROV_1.6.05	Install antivirus software and patterns updates	Excluded Tasks	Customer is responsible for Antivirus installation and virus pattern updates on a daily basis.	n/a	n/a
516	TO_SPROV_1.6.06	Antivirus software licenses	Excluded Tasks		n/a	n/a
517	TO_SPROV_1.6.07	Perform scheduled startup/shutdown of hardware	Standard Services	Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler).	n/a	n/a
518	TO_SPROV_1.6.08	Restart the hardware after failure	Standard Services	Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler).	n/a	n/a
519	TO_SPROV_1.6.09	Monitor hardware on hypervisor level	Standard Services	Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler).	n/a	n/a
520	TO_SPROV_1.6.10	Monitor operating system of provided OS instances	Excluded Tasks		n/a	n/a
		<b>Storage Management</b>				
521						
522	TO_SPROV_1.7.01	Initial set-up and ongoing management of storage	Standard Services	Storage capacity will be provided as contracted based on customer specifications; technical limitations for storage volume that can be provided under this service apply (details specified in the respective service description).	n/a	n/a
523	TO_SPROV_1.7.02	Manage data files/file systems	Excluded Tasks		n/a	n/a
524	TO_SPROV_1.7.03	Request storage area size/ size extensions for the backup storage area. Select and execute backup according to application/ customer needs and store backup data into the designated backup storage area. Ensure housekeeping of the backup storage area.	Excluded Tasks		n/a	n/a
525	TO_SPROV_1.7.04	Provide an NFS or SMB share as backup storage area to allow storage of customer defined backups. Backup storage area sizing is done based on customer input as contracted.	Standard Services		n/a	n/a
526	TO_SPROV_1.7.06	Mount of file system from managed server to an IaaS server	Standard Services	Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler). Applicability to a given customer landscape needs to be checked with the respective SAP Account Manager; customers must not execute tasks using this mount that put a risk to performance or stability of the managed cloud infrastructure (e.g. network services, large volume data syncs etc.).	n/a	n/a
527	TO_SPROV_1.7.05	Scale storage capacity	Optional Services		n/a	n/a
		<b>Application Management</b>				
528						
529	TO_SPROV_1.8.01	Define application requirements	Excluded Tasks		n/a	n/a
530	TO_SPROV_1.8.02	Provide customer specific software licenses	Excluded Tasks	Customer must make sure that they hold valid licenses to run the installed software in the cloud environment.	n/a	n/a
531	TO_SPROV_1.8.03	Install application	Excluded Tasks		n/a	n/a
532	TO_SPROV_1.8.04	Operate application	Excluded Tasks		n/a	n/a
533	TO_SPROV_1.8.05	Install patches and security updates	Excluded Tasks	Customer is responsible for software lifecycle management.	n/a	n/a
534	TO_SPROV_1.8.06	Application monitoring	Excluded Tasks		n/a	n/a
		<b>IaaS VM Snapshot (offline image backup)</b>				
535						
536	TO_SPROV_1.10.01	Service Set-up	Optional Services		n/a	n/a
537	TO_SPROV_1.10.02	Request additional storage for copy of block device	Excluded Tasks	This Volume (additional storage) needs to be provisioned to accommodate the block device backup temporarily before moving it to the standard backup solution.	n/a	n/a
538	TO_SPROV_1.10.04	Snapshot of IaaS	Optional Services	Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler). Performed on customer request only; shutdown, rsync block device and copy to the standard backup solution. Maximum of Two (2) snapshots per month. Minimum duration of Three (3) months required for snapshot service and storage (if required). Any storage required can be extended through the contract duration.	n/a	n/a
539	TO_SPROV_1.10.05	Restart server and inform customer	Optional Services	After successful restart of VM, inform customer and update the ticket.	n/a	n/a
540	TO_SPROV_1.10.06	Start required applications on server	Excluded Tasks	Customer needs to make sure that applications are started after the snapshot operation.	n/a	n/a
		<b>Disaster Recovery</b>				
541						
542	TO_SPROV_1.9.01	Provide VM and related storage in the secondary data center	Optional Services	Only for those IaaS servers explicitly specified in the contract as relevant for DR.	n/a	n/a
543	TO_SPROV_1.9.02	Set-up application on the dedicated VM in the secondary data center. Configure file system replication between primary and the secondary data center across the customer WAN network. Monitor the replication status and perform necessary operation activities.	Excluded Tasks		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
<b>544</b>		<b>G - Cloud Application Services</b>				
<b>545</b>		<b>Cloud Application Services - Reactive Services</b>	<b>Only available for managed systems. Service delivery requires initial scoping for relevant application area before tasks can be delivered; transition to service execution may apply.</b>			
546	CAS_1.1.01	Incident Management: Troubleshoot functional incidents in SAP applications	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will perform reactive application management for Incidents, where the resolution may include: Restoration of the service or resolution of the underlying issue; Provision of a Workaround; Creation of an action plan.	Functional Application Management	F1
547	CAS_1.1.02	Problem Management: root cause analysis and resolution of problems in SAP applications	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will perform root cause analysis and propose a resolution for problems, which may include: Analysis of the root cause of an incident; Providing an approach to prevent the incident from reoccurring; Resolution of problems; Recommendations on application and system optimization; Request involvement of Product Support as necessary.	Functional Application Management	F1
548	CAS_1.1.03	Service Request Management: Perform Service Request Fulfillment for functional tasks in SAP applications	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will accept tickets from Key Users to request a service. Service Request Tickets include: Agreed Standard Service Request or Standard Change with implementation; Service Request for non-standard scope, including: Scope definition and commercial validation and approval.	Functional Application Management	F1
549	CAS_1.1.04	Event Management: Monitor functional event types in SAP applications	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will perform event management activities and create tickets for identified issues, which may include: Monitoring alerts; Categorization of alerts according to criticality; Taking corrective actions in processing the incident tickets; Proactive adjustment to relevant parameters to avoid further issues.	Functional Application Management	F1
550	CAS_1.1.05	Change Management: Changes of functional configuration in SAP applications	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will accept tickets for non-standard scope from Key Users and provide analysis of Requests for change, including: Scope definition and commercial validation and approval.	Functional Application Management	F1
<b>551</b>		<b>Cloud Application Services - Proactive Services</b>				
552	CAS_1.2.01	Continuous Operations	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Cloud Optimization	O1
553	CAS_1.2.03	Managed Operations Control Center	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Customer Application Monitoring	M2
554	CAS_1.2.05	Deployment Management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Customer Deployment Strategy	DP1
555	CAS_1.2.06	Cloud Optimization	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will assist Customer with establishing cloud operations in the SAP cloud environment solution. This include tasks as provide best practices, support through the start, establishment and optimization, facilitating the identification of issues impacting the cloud-based environment.	Cloud Optimization	O1
556	CAS_1.2.07	Business Improvement Foundation	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Service activates and continuously operates SAP Signavio Process Insights and Business Process Monitoring of Cloud ALM or those tasks which are per product default in responsibility of the Customer. Provides managed integration for both S/4HANA Cloud, private edition and for a single point of access by the Process Analytics Dashboard (PAD) running on BTP as central launchpad by SAP Build Workzone, standard edition.	Business Improvement Foundation	B1
557	CAS_1.2.08	Data Integration and Lifecycle Management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
<b>558</b>		<b>Testing Services</b>				
559	CAS_2.1.01	Provide detailed plan for test management execution	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will align with Customer's test strategy and approach and schedule test execution with respect to the Customer defined test scope.	Regression Testing	T2
560	CAS_2.1.02	Perform outcome based functional testing on the defined scope, report defects, and report issues	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will use Customer provided test case documentation for test execution.	Regression Testing	T2
561	CAS_2.1.03	Configure the Test Suite in SAP Solution Manager	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP will leverage Customer's instance of Test Management Tool (e.g. Solution Manager) as system for record of testing.	Regression Testing	T2
562	CAS_2.1.04	Test Execution on SAP Integration Suite	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		SAP S/4HANA Interface Testing	T3
563	CAS_2.1.05	Execution of automated interface test scripts	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		SAP Integration Suite Testing	T4
<b>564</b>		<b>Security Services</b>				
565	CAS_2.2.01	Execute Segregation of Duty check and provide report of risk assessment and recommendations for improvement	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Segregation of Duties Check	S3
566	CAS_2.2.02	Scan Customer SAP productive system for security risks of secure configuration, review authorization concept, and secure configuration of HANA system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Security Risk Check	S6
567	CAS_2.2.03	Continuous management of existing and new RFC enabled function modules	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Security for Interface	S7
568	CAS_2.2.04	Execute monitoring of Customer application for security status for defined security KPIs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Security Monitoring	S8
569	CAS_2.2.05	Prepare regular security audits and identify issues during and after regular audits	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Audit Readiness	S4

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
570		<b>H - SAP S/4HANA Movement Program</b>				
571		<b>Transformation Discovery - Technical Preparation Services</b>				
572	MOVE_1.1.02	SAP Readiness Check for SAP S/4HANA	Standard Services	Service can only be applied to the ECC landscape indicated in the contract. Includes implementation of SAP Readiness Check for SAP S/4HANA; Notes in the corresponding system and generation of the required files with subsequent handover of the export file to the customer. Customer must submit the request for SAP Readiness Check report and dashboard generation or SAP will perform this on behalf of the customer. Target scenario for this service is an SAP S/4HANA conversion from SAP ECC system.	n/a	n/a
573	MOVE_1.1.07	SAP Readiness Check for SAP BW/4HANA	Standard Services	The service can only be applied to the SAP BW landscape indicated in the contract. Includes implementation of SAP Readiness Check for SAP BW/4HANA Notes in the corresponding system and generation of the required files with subsequent handover of the export file to the customer. Customer must submit the request for SAP Readiness Check report and dashboard generation or SAP will perform this on behalf of the customer. Target scenario for this service is an SAP BW/4HANA conversion from SAP BW system.	n/a	n/a
574	MOVE_1.1.03	Custom Code Analysis - Setup	Standard Services	The service can only be applied during an ECC to SAP S/4HANA conversion or upgrade of a SAP S/4HANA solution landscape. The entire ERP system landscape is evaluated to determine the right approach to provide the setup for a custom code analysis. Required SAP Notes will be implemented. Based on the determined approach, at the end of the service, the customer will be handed over a functional SAP S/4HANA custom code analysis setup in the local S/4HANA system, Remote Central ATC system, or the Custom Code Migration App.	n/a	n/a
575	MOVE_1.1.04	SAP Signavio Process Insights	Standard Services	Service can only be applied to the ECC landscape indicated in the contract. Includes implementation of the technical prerequisites for SAP Signavio Process Insights in the corresponding system; and generation of the ZIP file with hand over to customer.	n/a	n/a
576	MOVE_1.1.05	SAP Innovation and Optimization Pathfinder	Standard Services	The service can only be applied to the ECC or SAP S/4HANA landscape indicated in the contract. Includes implementation of the technical prerequisites for SAP Innovation and Optimization Pathfinder in the corresponding system; and generation of the ZIP file with hand over to customer. Target scenario for this service is an ECC or SAP S/4HANA upgrade; or the transition from ECC to SAP S/4HANA.	n/a	n/a
577		<b>Transformation Discovery - Expert Services</b>				
578	MOVE_1.2.01	SAP S/4HANA Functional Roadmap Service	Additional Service	The service can only be applied during an ECC to SAP S/4HANA conversion or upgrade of a SAP S/4HANA solution landscape. Includes review and impact analysis of relevant simplification item from the SAP Readiness Check for SAP S/4HANA (upgrade); evaluation of effort for item handling for high prioritized and uncategorized items; discussion of the action plan for high prioritized items; and evaluation of an action plan for uncategorized items.	n/a	n/a
579	MOVE_1.2.02	SAP S/4HANA Custom Code Analysis	Additional Service	The service can only be applied during an ECC to SAP S/4HANA conversion or upgrade of a SAP S/4HANA solution landscape. Includes review of the Custom Code Impact analysis results (out of ABAP Test Cockpit or Custom Code Migration App) for a SAP S/4HANA conversion or an upgrade, evaluation of the results, and remediation approach.	n/a	n/a
580	MOVE_1.2.03	SAP S/4HANA Technical Roadmap Service	Additional Service	Service can only be applied to the ECC landscape indicated in the contract. Includes review of system landscape, software component, OS, and DB version. A virtual session with the customer will be provided to: present the benefits and drawbacks of the conversion scenario versus a Greenfield scenario; clarify architectural and functional changes; and review preparation tasks.	n/a	n/a
581		<b>Conversion Execution</b>				
582	MOVE_1.3.01	Sandbox Conversion Project environment setup and operations	Optional Services	Used for building sandbox systems in the private cloud landscape. These temporary systems can be used by Customer to successfully carry out S/4HANA conversion projects. Application uses for scenarios such as trial runs of the S/4HANA conversion, testing S/4HANA conversion with production data, executing multiple technical iterations to familiarize with the process, and also to determine realistic S/4HANA conversion duration. These sandbox systems can be ordered for any duration needed according to the Customer project needs.	n/a	n/a
583	MOVE_1.3.02 / BASIC_1.5.20	Conversion of SAP ERP and SAP BW systems to SAP S/4HANA and SAP BW4/HANA	Additional Service	"Conversion" process denotes the switch or movement from an older hosted SAP ERP software version to an SAP S/4 release, and typically involves SAP Readiness Check, Simplification Items Catalog, Business function (de)activation with tools like SUM/DMO, Custom code optimization, functional/integration testing etc. This task is limited to services which cannot be performed by the customer e.g. SUM tool, activities in client 000 etc. Overall responsibility for SAP S/4HANA conversion which includes (but not limited to) SAP Readiness check, simplification items, Maintenance planner, Application tasks, custom code adjustment, functional/integration testing etc. for conversion process is the responsibility of the customer. This line item does not include the usage of more sophisticated update approaches like nZDT/ZDO/Downtime Minimization etc. Standard scheduled downtime is required to implement. Any post installation tasks required which is not technical in nature (e.g. application related settings/manual code creation in customer namespace or manual activities required in SAP namespace, SPAU/SPDD, simplification items etc.) need to be performed by the customer. Depending on complexity of conversion involvement of other SAP services might be required. This service only applies to managed systems.	n/a	n/a
584	MOVE_1.3.03	Functional Conversion and Conversion Project Management	Excluded Tasks		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
585		<b>X1 - 3rd Party Software</b>			.	.
586		3rd Party Software (e.g. partner add-ons, libraries, client software; not applicable to solutions explicitly shown as managed service in other sections of this document and the contract for the customer).	Customer must ensure proper licensing of the respective 3rd party software allowing its usage in the managed system; 3rd party software in the context of the managed system is defined as any software solution for which the intellectual property is not owned by SAP; the technical and operational compatibility of every 3rd Party Solution with SAP has to be individually checked by the customer; service provider will not take responsibility for negative effects on the underlying system and infrastructure platform managed by service provider which are caused by any such 3rd Party Solution.		.	.
587		<b>Managed 3rd Party ABAP add-ons</b>	For selected 3rd party NW ABAP add-ons which are listed on the SAP license price list offers a lightweight managed service, which only includes installation of the add-on and subsequent updates; the list of supported solutions is subject to change; supported add-on needs to be explicitly specified in the cloud contract.		.	.
588	TO_PA_1.1.01	Installation	Standard Services		n/a	n/a
589	TO_PA_1.1.02	Configuration	Excluded Tasks		n/a	n/a
590	TO_PA_1.1.03	Application monitoring	Excluded Tasks		n/a	n/a
591	TO_PA_1.1.04	Apply updates	Standard Services		n/a	n/a
592	TO_PA_1.1.05	Application troubleshooting including engagement with the partners support organization	Excluded Tasks		n/a	n/a
593	TO_PA_1.1.06	Uninstallation of ABAP Add-ons	Standard Services		n/a	n/a
594		<b>Unmanaged 3rd Party ABAP add-ons</b>			.	.
595	TO_PA_1.2.01	Installation	Excluded Tasks		n/a	n/a
596	TO_PA_1.2.02	Configuration	Excluded Tasks		n/a	n/a
597	TO_PA_1.2.03	Application monitoring	Excluded Tasks		n/a	n/a
598	TO_PA_1.2.04	Apply updates	Excluded Tasks		n/a	n/a
599	TO_PA_1.2.05	Application troubleshooting including engagement with the partners support organization	Excluded Tasks		n/a	n/a
600		<b>Other unmanaged 3rd Party Software</b>			.	.
601	TO_PA_1.3.01	3rd party software evaluation	Standard Services	This task can take several weeks to be completed. Results of previously completed evaluations will be reused and lead to lower process runtimes.	n/a	n/a
602	TO_PA_1.3.02	3rd party software installation that can not be done by Customer	Additional Service	Examples: ODBC driver; OS agents; print driver, Java addons etc.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
603		<b>X2 - Business Connector</b>			.	.
604		<b>Operations</b>			.	.
605	TO_BC_1.1.04	Reorganization of Message Store	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
606		<b>X4 - SAP Data Services (DS)</b>			.	.
607		<b>Operations</b>			.	.
608	TO_DS_1.1.22	Authorization - Users and Rights Management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
609	TO_DS_1.1.06	Create/Modify Data Services jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
610	TO_DS_1.1.07	Schedule Data Services jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
611	TO_DS_1.1.08	Configure database connections	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
612	TO_DS_1.1.09	Monitor jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Manual monitoring; effort based per execution.	Application Operations	A1
613	TO_DS_1.1.10	Repository backup DS and BOE	Standard Services		n/a	n/a
614	TO_DS_1.1.11	Delete batch job history	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
615	TO_DS_1.1.12	Verify that job and access servers are running	Standard Services		n/a	n/a
616	TO_DS_1.1.13	Remove obsolete repository contents	Standard Services		n/a	n/a
617	TO_DS_1.1.14	Troubleshoot issues with DS Jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
618	TO_DS_1.1.23	Create/Manage additional repositories	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	System comes with default repositories. OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
619	TO_DS_1.1.26	Backup: On-Demand - BI Database and File Repo Sync	Additional Service		n/a	n/a
620	TO_DS_1.1.27	Restore: On-Demand - BI Database and File Repo Sync	Additional Service		n/a	n/a
621	TO_DS_1.1.28	Authentication set-up and Single Sign On (SSO) configuration	Excluded Tasks	Customer may engage other SAP services for SSO solutions for cloud environment.	n/a	n/a
622	TO_DS_1.1.29	Install and configure Data Services Adapters	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
623	TO_DS_1.1.30	Add and configure additional Job Servers/ Job Groups for load balancing	Optional Services	Depending on sizing, additional infrastructure may be required.	n/a	n/a
624	TO_DS_1.1.31	Configure Runtime Resources	Standard Services		n/a	n/a
625	TO_DS_1.1.32	Configure SMTP Email	Standard Services		n/a	n/a
626	TO_DS_1.1.33	Start/Stop services	Standard Services		n/a	n/a
627	TO_DS_1.1.34	Enhanced Change and Transport System (CTS+) Integration Set-up	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations or Solution Manager - ChaRM	A1, DP3
628	TO_DS_1.1.35	Configure transports via Data Services (DS) Object Promotion Management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
629	TO_DS_1.1.36	Backup Data Services Repository using Import/Export Tool	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
630		X6 - SAP BusinessObjects Business Intelligence (BI)			.	.
631		Operations			.	.
632	TO_BI_1.1.06	Backup (Full content backup / BIAR backup)	Standard Services		n/a	n/a
633	TO_BI_1.1.07	Scan / Repair and compact all repository errors	Standard Services		n/a	n/a
634	TO_BI_1.1.11	Clean-up empty directories created for Repository Diagnostic Tool	Standard Services		n/a	n/a
635	TO_BI_1.1.26	Cache Clean-up and Maintenance - Tomcat, Web Intelligence, Log Files	Standard Services		n/a	n/a
636	TO_BI_1.1.17	Program Object Actions: Import and Execution	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Functional Application Management	F1
637	TO_BI_1.1.18	Promote/deploy BI objects between environments	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
638	TO_BI_1.1.19	Create, rename, remove connections and Universes	Excluded Tasks		n/a	n/a
639	TO_BI_1.1.21	Provide user access and maintain authorizations	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
640	TO_BI_1.1.47	SAML configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Functional Application Management	F1
641	TO_BI_1.1.27	Deploy templates and system configurations for hardware changes	Standard Services		n/a	n/a
642	TO_BI_1.1.29	Auditing/Monitoring Driver Set-up and configuration for Audit reporting	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Functional Application Management	F1
643	TO_BI_1.1.30	Perform ERP Integration Set-up and Configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Functional Application Management	F1
644	TO_BI_1.1.33	Backup: On-Demand - BI Database and File Repo Sync	Additional Service		n/a	n/a
645	TO_BI_1.1.34	Restore: On-Demand - BI Database and File Repo Sync	Additional Service		n/a	n/a
646	TO_BI_1.1.35	Authentication set-up and Single Sign On (SSO) configuration	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
647	TO_BI_1.1.37	Configure Web Application - reverse proxy settings	Standard Services		n/a	n/a
648	TO_BI_1.1.38	Add and configure additional BI servers for load balancing	Optional Services	Additional infrastructure may be required.	n/a	n/a
649	TO_BI_1.1.39	Manage Server Process and Server Groups	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
650	TO_BI_1.1.40	Set-up/Support technical tasks for BI Report Version Management	Standard Services	Customer responsible for maintaining report versions.	n/a	n/a
651	TO_BI_1.1.41	Enhanced Change and Transport System (CTS+) Integration Set-up	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations or Solution Manager - ChaRM	A1, DP3



Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
652			X7 - SAP PI			
653			SAP PI Implementation			
654	TO_PI_1.1.01	Install adapters and software components provided by SAP	Standard Services	Included only for items explicitly specified in the contract/Order Form. This is valid also for additional offerings from SAP such as: ADAPTERS for SAP NW PI 1.1, SAP NW Process Integration, business-to-business add-on 1.0, SAP NW Process Integration Secure Connectivity Add-on 1.0. This does not include efforts for content handling like the import of TPZ files into the ESR.	n/a	n/a
655	TO_PI_1.1.02	Install adapters provided by external partners	Standard Services	Must provide adapter software and licenses. This does not include efforts for content handling like the import of TPZ files into the ESR.	n/a	n/a
656	TO_PI_1.1.03	Configure the required system connections to partner systems	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Time and material basis for changes in network set-up (routers, firewalls access lists). Customer must provide network connections to target systems.	Functional Application Management	F1
657	TO_PI_1.1.04	Create SSL views and PSEs	Excluded Tasks		n/a	n/a
658			SAP PI Operations			
659	TO_PI_2.1.02	Monitor application-specific PI functions, e.g. messaging, queues etc.	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Monitoring or Customer Application Monitoring	M1, M2
660	TO_PI_2.1.03	Monitor the message processing in PI (success and performance)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Functional Application Management	F1
661	TO_PI_2.1.04	Monitor communication channels, queues, backlogs of PI (AEX)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Functional Application Management	F1
662	TO_PI_2.1.05	Monitor BPM processes (success and performance)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
663	TO_PI_2.1.06	Configure adapters	Excluded Tasks		n/a	n/a
664	TO_PI_2.1.07	Deal with incorrect messages	Excluded Tasks		n/a	n/a
665	TO_PI_2.1.08	Configure message archiving	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
666	TO_PI_2.1.27	Execute and monitor message archiving	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
667	TO_PI_2.1.11	Role/authorization maintenance (except SAP and initial customer administrator role)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Functional Application Management	F1
668	TO_PI_2.1.16	Maintain users (except for the SAP and initial customer administrator role)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Secure Users & Authorizations	S2
669	TO_PI_2.1.17	Set-up of PI / BPM / AEX housekeeping	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
670	TO_PI_2.1.28	Monitor housekeeping activities of PI / BPM / AEX	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
671	TO_PI_2.1.19	Adjust PO/PI /AEX parameterization and configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	The configuration doesn't cover the realization of integration scenarios (content development).	Application Operations	A1
672	TO_PI_2.1.21	Maintain the system landscape directory (SLD)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Related to PI scenarios.	Application Operations	A1
673	TO_PI_2.1.22	Apply SAP basic application content update to the Enterprise Service Repository (ESR)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
674	TO_PI_2.1.23	Handle errors and analyze root cause for incorrect message processing in PI (AEX)	Excluded Tasks		n/a	n/a
675	TO_PI_2.1.24	Check PI / PO / AEX readiness after changes (upgrades, patches, notes)	Excluded Tasks		n/a	n/a
676	TO_PI_2.1.25	Configure the required system connections to partner systems	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
677	TO_PI_2.1.26	Transport management of PI objects	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
678		<b>X8 - Enterprise Portal</b>				
679		<b>Operations</b>				
680	TO_EP_1.1.01	Monitoring of application services for Portal, Unifiers, Unification Server, PCD, and CM	Standard Services	Monitors application services only; customer responsible to monitor portal content.	n/a	n/a
681	TO_EP_1.1.03	Maintain LDAP (Novell, ADS, iPlanet and others)	Excluded Tasks		n/a	n/a
682	TO_EP_1.1.04	Analyze Portal System logs and revise failures occurred	Standard Services	Provider to inform customer of required assistance.	n/a	n/a
683	TO_EP_1.1.05	System landscape maintenance, connection of external systems – e.g. SAP	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Port connection required.	Application Operations	A1
684	TO_EP_1.1.07	User mapping	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
685	TO_EP_1.1.08	Role/Channel/iPanel allocation	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
686	TO_EP_1.1.09	Content administration	Excluded Tasks		n/a	n/a
687	TO_EP_1.1.10	Set-up and maintain Portal user source data	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Secure Users & Authorizations	S2
688	TO_EP_1.1.11	Lock and delete portal user source data	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Secure Users & Authorizations	S2
689	TO_EP_1.1.12	Release locked portal users	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Secure Users & Authorizations	S2
690	TO_EP_1.1.13	Define and change Customer specific portal authorization profiles	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Secure Users & Authorizations	S2
691	TO_EP_1.1.14	Administer Content Repository	Excluded Tasks		n/a	n/a
692	TO_EP_1.1.20	Customize, upgrade POE including all components	Excluded Tasks	Set J2EE passwords, configure Java port, add service packs.	n/a	n/a
693	TO_EP_1.1.22	Upgrade of pages, roles, static html content	Excluded Tasks		n/a	n/a
694	TO_EP_1.1.23	Maintenance of Java services	Standard Services	Customer responsible to develop new Java services, and to customize existing java services.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
695		X9 - Sybase IQ (used as data persistency for NLS, ILM or 3rd party archiving solutions)			.	.
696		<b>Database Installation/Configuration</b>			.	.
697	TO_SIQ_1.1.01	Check/prepare system requirements (BW Release, SAP Notes, Source/target set-up)	Excluded Tasks		n/a	n/a
698	TO_SIQ_1.1.03	Initial configuration / parameter settings	Standard Services		n/a	n/a
699	TO_SIQ_1.1.06	Initialize connection between BW/NLS and Sybase IQ	Standard Services	Provider will perform required set-up. Customer must configure the NLS connection from the BW side.	n/a	n/a
700		<b>Database Operations</b>			.	.
701	TO_SIQ_1.2.02	Database capacity management	Standard Services		n/a	n/a
702	TO_SIQ_1.2.04	Perform database consistency check (DBCC)	Standard Services		n/a	n/a
703	TO_SIQ_1.2.05	Troubleshoot technical database issues	Standard Services		n/a	n/a
704	TO_SIQ_1.2.06	Set-up backup	Standard Services		n/a	n/a
705	TO_SIQ_1.2.07	Restore backup	Standard Services		n/a	n/a
706	TO_SIQ_1.2.08	Monitor database connection	Standard Services	Customer must check connection from BW side.	n/a	n/a
707		<b>Application</b>			.	.
708	TO_SIQ_1.4.01	Create/schedule/restore data archiving requests	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
709	TO_SIQ_1.4.02	Query handling	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
710	TO_SIQ_1.4.03	Install partner add-ons in backend systems	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
711	TO_SIQ_1.5.01	Provision server for the archiving solution server	Optional Services	If partner solution requires extra server; refer to Server Provisioning section in this document for details.	n/a	n/a
712	TO_SIQ_1.4.04	Install partner archiving software	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Customer must make sure, that they hold valid licenses to run the installed software in the cloud environment.	Data Lifecycle Management	D3
713	TO_SIQ_1.4.05	Configure partner archiving software	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
714	TO_SIQ_1.4.06	Managed services for archiving partner software (issue handling)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
715		<b>SAP Information Lifecycle Management (ILM) for Sybase IQ</b>			.	.
716	TO_SIQ_1.6.01	Check and prepare system requirements (Sizing, SAP Notes)	Excluded Tasks		n/a	n/a
717	TO_SIQ_1.6.02	Activate of ILM Store in NetWeaver	Standard Services		n/a	n/a
718	TO_SIQ_1.6.03	Set parameters in SAP IQ for ILM Store	Standard Services		n/a	n/a
719	TO_SIQ_1.6.05	Set-up ILM Store Authorizations	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
720	TO_SIQ_1.6.06	Integrate ILM Store to Archiving Process	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
721	TO_SIQ_1.6.07	Configure of ArchiveLink connection to ILM Store	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
722	TO_SIQ_1.6.08	Configure of Storage Connections	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
723	TO_SIQ_1.6.09	Check ICM Parameters	Standard Services		n/a	n/a
724	TO_SIQ_1.6.10	Set-up Clients and Origins in the ILM Store	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
725	TO_SIQ_1.6.11	Integration to OpenText Storage	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
726	TO_SIQ_1.6.12	Integration to other ILM Certified Storage	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
727	TO_SIQ_1.6.13	Data destruction and data compliance	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
728	TO_SIQ_1.6.14	License generation and deployment for Live Systems	Standard Services		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
729		<b>X11 - SAP Cloud Connector</b>			.	.
730		<b>Installation and Configuration</b>			.	.
731	TO_SCC_1.1.02	Configuration - Enable outbound connection via LoadBalancer	Standard Services	Enable Cloud Connector to connect with SAP Business Technology Platform application domains / IP ranges or SAP Business Network domains / IP ranges (e.g.: Ariba, LBN, AIN)	n/a	n/a
732	TO_SCC_1.1.03	Configuration - Establish connection to SAP Business Technology Platform (formerly SAP Cloud Platform) sub-accounts	Standard Services	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: Configure BTP subaccount connection; Connect SAP Business Technology Platform (formerly SAP Cloud Platform) subaccount to the Cloud Connector. RISE integration specific, or Business Network specific Sub-accounts required for default RISE integration. Limited to S/4HANA and SAP ERP Central Component (SAP ECC) deployments.	n/a	n/a
733	TO_SCC_1.1.04	Configuration - On-premise resources (OData services) customer wants to use in SAP Business Technology Platform - BTP (formerly SAP Cloud Platform)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: Create destination for ABAP backend system (Mapping virtual to internal system); Configure accessible resources /sap/bc/tp and /sap/bc/tpads.	Application Operations or Data Lifecycle Management	A1, D3
734	TO_SCC_1.1.05	Monitoring - SCC service monitoring (Linux / Windows Services)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Can be done in Administrator UI or by executing a manual status check command or via HCP Administrator Cockpit. Manual monitoring; effort based per execution.	Application Operations or Data Lifecycle Management	A1, D3
735	TO_SCC_1.1.06	Define and provide two user groups (Cloud Portal Admin, Cloud Portal User)	Standard Services		n/a	n/a
736	TO_SCC_1.1.07	Tunnel Availability monitoring	Standard Services	For version 2.12 and higher only. Service provider can monitor tunnel availability for informational purposes only but is not covered under the Service Level Agreement.	n/a	n/a
737	TO_SCC_1.1.11	SNC Setup for SAP Cloud Connector	Additional Service	Customer to provide the requirements/details to configure the SNC on SCC and backend systems.	n/a	n/a
738		<b>X12 - SAP Business Technology Platform - BTP (formerly SAP Cloud Platform) Integration - Data Services Agent (BTPI-DS) (Formerly HCI-DS)</b>			.	.
739		<b>Installation and Configuration</b>			.	.
740	TO_BTPI_DS_1.1.01	Install SAP BTPI - Data Service agent	Standard Services		n/a	n/a
741	TO_BTPI_DS_1.1.02	Configuration - Enable outbound connection via LoadBalancer to connect with BTPI	Standard Services		n/a	n/a
742	TO_BTPI_DS_1.1.03	Configuration - Establish connection to customer's cloud account	Standard Services	Need access to BTPI portal or service provider will request the configuration file from customer. Configuration performed at OS level. Provider will verify that agent status is green in BTPI portal.	n/a	n/a
743	TO_BTPI_DS_1.1.04	Configuration - Business backend preparation steps for BTPI consumption	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
744		<b>Monitoring Set-up</b>			.	.
745	TO_BTPI_DS_1.2.01	Monitoring set-up for process level availability - Nagios	Standard Services		n/a	n/a
746		<b>Data Handling and Data Services</b>			.	.
747	TO_BTPI_DS_1.3.01	Migrate or replicate data between data stores	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
748		<b>X13 - SAP Fiori</b>			.	.
749		<b>Installation and Configuration</b>			.	.
750	TO_FIORI_1.1.01	Install application specific packages in respective SAP Systems	Standard Services	Initial set-up in managed system.	n/a	n/a
751	TO_FIORI_1.1.03	Configuration - Web Dispatcher Fiori App redirects	Standard Services	SSL is a prerequisite for this task. Scope during Initial Provisioning includes all systems defined in the initial contract. If more systems are added a Change Request (CR) is required and extra charges may apply. For systems migrated to environments for which SAP is the Service Provider, it is the customer's responsibility to configure the Web Dispatcher for the migrated system; this configuration can be delivered through a separately contracted cloud onboarding and migration service.	n/a	n/a
752	TO_FIORI_1.1.10_AE	Configuration - Web Dispatcher Fiori App redirects - additional requests	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Efforts for additional requests. Includes SSL configuration and certificate handling and is limited to technical SAP Fiori Launchpad enablement for additional clients or products other than SAP S/4HANA only.	Application Operations	A1
753	TO_FIORI_1.1.05	Configuration - HANA XS Engine Web Dispatcher	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SSL is a prerequisite for this task. Scope during Initial Provisioning includes all systems defined in the initial contract.	Application Operations	A1
754	TO_FIORI_1.1.09	Initial enablement of Fiori launchpad including all required connectivity set-up	Standard Services	Includes SAP Fiori Launchpad enablement for One (1) client (client 100) per SAP S/4HANA system for Greenfield deployments. This includes the activation of predefined sample SAP Fiori apps to validate SAP Fiori Launchpad enablement. For systems migrated to environments which use SAP as the service provider, it is customer's responsibility to enable existing SAP Fiori app(s) and is covered by a separately contracted cloud onboarding and migration service.	n/a	n/a
755	TO_FIORI_1.1.06	Re-enable Fiori launchpad including all required connectivity set-up	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Covers additional charge for re-enablement.	Application Operations	A1
756	TO_FIORI_1.1.07	Configuration - Fiori applications	Excluded Tasks	In some situations service provider might be able to support the customer using an Application Management service, however due to the large variety of possible scenarios this item has been generally excluded from the service; customers should seek assistance via other SAP services.	n/a	n/a
757	TO_FIORI_1.1.08	Establish trusted connections from Web Dispatcher to Gateway, backend system (e.g. S/4 HANA) and HANA XS engine of backend system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Access to customer client required.	Application Operations	A1
758	TO_FIORI_1.1.11_AE	Enable Fiori Launchpad for the standard Fiori applications for additional business clients, brownfield / migration deployments or SAP products other than S/4HANA	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Includes example Fiori Catalog, example Fiori Group and example PFCG role.	Application Operations	A1
759	TO_FIORI_1.1.12_AE	Re-enable technical integration points after system/client copy	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Performed for additional business clients or products other than SAP S/4HANA.	Application Operations	A1
760	TO_FIORI_1.1.13	Activate standard Fiori Applications based on SAP business roles	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
761		<b>X15 - Web Dispatcher</b>			.	.
762		<b>Web Dispatcher Operations</b>			.	.
763	TO_WD_1.1.01	Register/Remove Systems in Web Dispatcher and their options regarding SSL	Standard Services	Scope during initial provisioning includes all systems defined in the initial contract. If more systems are added a Change Request (CR) is required and extra charges may apply.	n/a	n/a
764	TO_WD_1.1.02	General memory management definition	Standard Services		n/a	n/a
765	TO_WD_1.1.03	General security parameter definition	Standard Services		n/a	n/a
766	TO_WD_1.1.04	General Configuration for Support SSL in Parameter File or PSE Maintenance Tool in Admin tool (Handling HTTPS Requests)	Standard Services		n/a	n/a
767	TO_WD_1.1.05	Communication with the message server / application server using SSL	Standard Services		n/a	n/a
768	TO_WD_1.1.06	Modify HTTP requests	Standard Services		n/a	n/a
769	TO_WD_1.1.07	Set-up error handling	Standard Services		n/a	n/a
770	TO_WD_1.1.08	Maintain authentication File	Standard Services		n/a	n/a
771	TO_WD_1.1.09	Changes in client 000 of the backend systems related to Web Dispatcher (HTTPURLLOC)	Standard Services		n/a	n/a
772	TO_WD_1.1.10	Log and trace strategy	Standard Services		n/a	n/a
773	TO_WD_1.1.11	Encryption policy (protocols, ciphersuites, key length)	Standard Services		n/a	n/a
774	TO_WD_1.1.12	Connection counts	Standard Services		n/a	n/a
775	TO_WD_1.1.13	Metadata Exchange Using SSL	Standard Services		n/a	n/a
776	TO_WD_1.1.14	Define port ranges	Standard Services		n/a	n/a
777	TO_WD_1.1.15	LoadBalancer configuration for Web Dispatcher	Standard Services	Configuration details (routing rules, redirection information, backend system details etc.) must be provided by customer. Service provider will be update the Load Balancer and Web Dispatcher accordingly.	n/a	n/a
778	TO_WD_1.1.16	DNS Changes for Web Dispatcher Service	Excluded Tasks	There are no options to have personalized DNS.	n/a	n/a
779		<b>X16 - LoadBalancer</b>			.	.
780		<b>LoadBalancer operation</b>			.	.
781	TO_LRP_1.1.01	Set-up LoadBalancer instance	Standard Services		n/a	n/a
782	TO_LRP_1.1.02	Register/Remove Systems in LoadBalancer	Standard Services		n/a	n/a
783	TO_LRP_1.1.03	Configure load distribution to application servers	Standard Services		n/a	n/a
784	TO_LRP_1.1.04	Provide external IP for Internet facing scenarios	Standard Services		n/a	n/a
785	TO_LRP_1.1.05	Configure SSL offloading (Encryption)	Standard Services		n/a	n/a
786	TO_LRP_1.1.07	Perform DNS handling for customer own Domain	Excluded Tasks		n/a	n/a
787	TO_LRP_1.1.08	Provide X.509 certificate for customer domain to enable SSL	Excluded Tasks		n/a	n/a
788	TO_LRP_1.1.09	Provide X.509 certificate for SAP own URL like *.xxx.ondemand.com domain	Standard Services		n/a	n/a
789	TO_LRP_1.1.10	Install customer X.509 certificate	Standard Services		n/a	n/a
790	TO_LRP_1.1.11	Configure Web Application Firewall	Standard Services		n/a	n/a
791	TO_LRP_1.1.12	Configure persistence handling	Standard Services		n/a	n/a
792	TO_LRP_1.1.14	Configure health checks	Standard Services		n/a	n/a
793	TO_LRP_1.1.15	Configure URL/IP based blocklist and allowlist filtering	Standard Services		n/a	n/a
794	TO_LRP_1.1.16	Configure sorry page function	Standard Services		n/a	n/a
795	TO_LRP_1.1.17	Configure outgoing connections to Internet	Standard Services		n/a	n/a
796	TO_LRP_1.1.18	Enable access from managed system to internet/public domain	Standard Services	Supported using outbound LoadBalancer. Used to integrate managed system with other clouds or customer public services etc.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
797		<b>X17 - OpenText Solutions</b>			.	.
798		<b>Data archiving and document access: ERP + archive + storage</b>			.	.
799		<b>ERP part</b>			.	.
800	TO_OT_1.1.01	Set-up connection to archive server	Standard Services		n/a	n/a
801	TO_OT_1.1.02	Customize archiving solution	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
802		<b>Archive server part (content repository)</b>			.	.
803	TO_OT_1.2.01	Archive server DB installation	Standard Services		n/a	n/a
804	TO_OT_1.2.02	Archive server installation	Standard Services		n/a	n/a
805	TO_OT_1.2.03	Configure the archive storage	Standard Services		n/a	n/a
806	TO_OT_1.2.04	Attaching storage to the Archive server	Standard Services		n/a	n/a
807	TO_OT_1.2.05	Configure the archive server	Standard Services		n/a	n/a
808		<b>Migration of existing archives to private cloud</b>			.	.
809	TO_OT_1.6.01	Data migration of archived data of OpenText archive system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Consulting project required.	Functional Application Management	F1
810	TO_OT_1.6.02	Data migration of archived data of Non-OpenText archive system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Consulting project required.	Functional Application Management	F1
811		<b>Admin Tasks Archive Server</b>			.	.
812	TO_OT_1.7.01	Standard backup (storage handling)	Standard Services		n/a	n/a
813	TO_OT_1.7.02	Standard monitoring	Standard Services		n/a	n/a
814	TO_OT_1.7.03	Administrative tasks (create new archives)	Standard Services	On customer request.	n/a	n/a
815		<b>Archiving: application management</b>			.	.
816	TO_OT_1.8.01	Authorization concept	Excluded Tasks		n/a	n/a
817	TO_OT_1.8.03	Archiving of data	Excluded Tasks		n/a	n/a
818	TO_OT_1.8.04	Deletion of data	Excluded Tasks		n/a	n/a
819		<b>Scanning and Pipeline</b>			.	.
820	TO_OT_1.3.01	Install on-premise (scan client)	Excluded Tasks		n/a	n/a
821	TO_OT_1.3.02	Scan Configuration	Excluded Tasks		n/a	n/a
822	TO_OT_1.3.03	Pipeline installation on-premise	Excluded Tasks		n/a	n/a
823	TO_OT_1.3.04	Pipeline configuration on-premise	Excluded Tasks		n/a	n/a
824		<b>VIM: SAP Component Installation in SAP ERP</b>	<b>In case VIM is part of solution scope</b>		.	.
825	TO_OT_1.4.01	Add-On installation for VIM	Standard Services		n/a	n/a
826	TO_OT_1.4.02	SAP Business Workflow Engine enabling (Basic configuration)	Standard Services		n/a	n/a
827	TO_OT_1.4.03	Business Configuration	Excluded Tasks	RDS available.	n/a	n/a
828	TO_OT_1.4.04	ArchiveLink customizing	Standard Services		n/a	n/a
829		<b>VIM: Invoice Capture Center (ICC)</b>	<b>In case VIM is part of solution scope</b>		.	.
830	TO_OT_1.5.01	Install VIM server	Standard Services		n/a	n/a
831	TO_OT_1.5.02	Basic configuration and connectivity	Standard Services		n/a	n/a
832	TO_OT_1.5.03	Basic business configuration	Excluded Tasks	RDS available.	n/a	n/a
833	TO_OT_1.5.04	Customer specific enhancements	Excluded Tasks		n/a	n/a
834		<b>StreamServe</b>	<b>In case StreamServe is part of solution scope</b>		.	.
835	TO_OT_1.9.01	Install StreamServe	Standard Services	To be done on OS-level.	n/a	n/a
836	TO_OT_1.9.02	Set-up connection to StreamServe server	Standard Services		n/a	n/a
837	TO_OT_1.9.03	StreamServe base configuration	Standard Services	Customer to provide FQDN of OpenText Server.	n/a	n/a
838	TO_OT_1.9.05	Application specific configuration	Excluded Tasks	e.g. Adjust print forms, BAPI functions, etc.	n/a	n/a
839		<b>Cloud Editions</b>			.	.
840		<b>SAP S/4HANA Common Tasks</b>			.	.
841	TO_OT_1.10.1	Install OpenText Cloud Edition Add-On	Standard Services	Includes SAP Archiving and Document Access by OpenText (ADA), SAP Vendor Invoice Management (VIM), SAP Extended Enterprise Content Management by OpenText (xECM).	n/a	n/a
842	TO_OT_1.10.2	Activate/Maintain ICF nodes required for Apps to be enabled/updated	Standard Services		n/a	n/a
843	TO_OT_1.10.3	Activate/Maintain OData Services required for Apps to be enabled/updated	Standard Services		n/a	n/a
844		<b>Vendor Invoice Management for SAP Solutions (VIM)</b>			.	.
845	TO_OT_1.11.1	Establish/Maintain secure connection to OpenText Core Capture for SAP Solutions (IES Cloud)/OT2	Standard Services	Create and maintain connections from S/4HANA SM59. Client ID and secret password from Admin Center need to be provided.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
846		<b>Extended Enterprise Content Management for SAP Solutions (xECM)</b>			.	.
847	TO_OT_1.12.1	Establish/Maintain secure connection to OpenText Cloud (OTK)	Standard Services	Create and maintain connections from S/4HANA SM59, STRUST and in xECM's IMG hierarchy "Create HTTP Connections".	n/a	n/a
848		<b>Archiving and Document Access for SAP Solutions (ADA)</b>			.	.
849		<b>OpenText Core Archive Connector</b>			.	.
850		<b>Operations</b>			.	.
851	TO_OT_1.13.1	Install OpenText Core Archive Connector and Document Pipelines	Standard Services	Application installation only.	n/a	n/a
852	TO_OT_1.13.2	Establish/Maintain secure connection to OpenText Core Archive for SAP Solutions (ADA Cloud)/OT2	Standard Services	Initial configuration and customer tenant registration.	n/a	n/a
853	TO_OT_1.13.3	Add/Maintain SAP S/4HANA systems connection	Standard Services		n/a	n/a
854	TO_OT_1.13.4	Administration of Collections and Data Sources	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
855	TO_OT_1.13.5	Configure scan host and profile	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
856	TO_OT_1.13.6	Configure/Maintain file archive job	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Lifecycle Management	D3
857	TO_OT_1.13.7	Maintain Core Archive Connector setting	Standard Services	Activity includes replacing/generating certificate and private key.	n/a	n/a
858	TO_OT_1.13.8	User Administration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Functional Application Management	F1
859		<b>Software Lifecycle Management</b>			.	.
860	TO_OT_1.14.1	Implement customer specific updates to the managed OT Core Archive Connector solution (software packages not commonly available via the SAP Service Marketplace)	Additional Service		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
861		<b>X17A - OpenText Extended Enterprise Content Management (OT xECM)</b>			.	.
862		<b>Installation</b>			.	.
863	TO_OT_XECM_1.1.1	Install OT xECM Components (Content Server, Archive Server, AppWorks, OTDS Server, Database repository)	Standard Services	Content Server, Archive Server, AppWorks, OTDS Server, Database repository.	n/a	n/a
864	TO_OT_XECM_1.1.2	Install OT xECM NetWeaver ABAP Add-on(s)	Standard Services	Install OT xECM , OT ADA and OTA Fiori Add-on on S4HANA System.	n/a	n/a
865	TO_OT_XECM_1.1.3	Install additional OT xECM application server deployment for HA	Standard Services	May require Change Request (CR) for HA option.	n/a	n/a
866		<b>Set-up and Configuration</b>			.	.
867	TO_OT_XECM_1.2.1	Post install configuration	Standard Services		n/a	n/a
868	TO_OT_XECM_1.2.2	Monitoring	Standard Services		n/a	n/a
869	TO_OT_XECM_1.2.3	Application configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
870	TO_OT_XECM_1.2.4	Data Archiving	Excluded Tasks		n/a	n/a
871	TO_OT_XECM_1.2.5	S4HANA integration and connectivity	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
872	TO_OT_XECM_1.2.6	SSL/TLS Secure Communication	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
873	TO_OT_XECM_1.2.7	SSO with Windows AD	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
874		<b>X18 - SAP Information Steward</b>			.	.
875		<b>Operations</b>			.	.
876	TO_IS_1.1.02	Add additional IS job servers for load balancing on existing infrastructure	Additional Service	Adding additional server on existing infrastructure. A Change Request (CR) is required if additional infrastructure needs to be deployed.	n/a	n/a
877	TO_IS_1.1.13	Add additional IS job servers for load balancing on new infrastructure	Optional Services	Adding additional server on new infrastructure. A Change Request (CR) is required.	n/a	n/a
878	TO_IS_1.1.03	User and access management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Secure Users & Authorizations	S2
879	TO_IS_1.1.04	Create and manage IS application jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Quality Management	D4
880	TO_IS_1.1.05	Execute Information Steward utilities	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Quality Management	D4
881	TO_IS_1.1.06	Data Insight, Metadata, Cleansing Package and Match Review administration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Quality Management	D4
882	TO_IS_1.1.08	IS repository and file system backup	Standard Services		n/a	n/a
883	TO_IS_1.1.09	IS job server and services monitoring	Standard Services		n/a	n/a
884	TO_IS_1.1.10	IS repository management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Quality Management	D4
885	TO_IS_1.1.11	Troubleshoot issues with IS jobs and utilities (Data Insight, Rule Tasks, Metadata Management, Data Cleansing)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Quality Management	D4
886	TO_IS_1.1.12	Execute performance tuning for Data Insight, Data Cleansing, Metadata Management, Metapedia and Match Review	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Quality Management	D4
887	TO_IS_1.1.14_AE	Validate Information Steward set-up and configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Quality Optimization	D5
888	TO_IS_1.1.15_AE	Collect metadata and assess data quality	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Quality Optimization	D5
889		<b>X21 - SAP Identity Management IDM</b>			.	.
890		<b>Configuration</b>			.	.
891	TO_IDM_1.0.01	Assist customer with IDM related tasks that require access to operating system	Standard Services		n/a	n/a
892	TO_IDM_1.0.02	Install IDM dispatchers as part of the initial cloud environment installation	Standard Services		n/a	n/a
893	TO_IDM_1.0.03	Connect IDM UI to IDM system	Standard Services	SSL configuration is not covered by this task.	n/a	n/a



Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
894		<b>X22 - SAP Financial Consolidation (FC)</b>			.	.
895		<b>Administration of Data Sources</b>			.	.
896	TO_FC_1.1.01	Start/Stop/Set Administrator Password and activity views for Datasources	Standard Services		n/a	n/a
897	TO_FC_1.1.02	Add Webservices	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
898	TO_FC_1.1.03	Add FC Application Server/Webserver on existing infrastructure	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
899	TO_FC_1.1.15	Add FC Application Server/Webserver on new infrastructure	Optional Services		n/a	n/a
900	TO_FC_1.1.04	Migrate and filter data source	Excluded Tasks		n/a	n/a
901	TO_FC_1.1.05	Install software configuration	Excluded Tasks		n/a	n/a
902	TO_FC_1.1.06	Sending/Broadcasting messages to End-users	Excluded Tasks		n/a	n/a
903	TO_FC_1.1.07	Define log configuration for application servers	Excluded Tasks		n/a	n/a
904	TO_FC_1.1.08	Define commands available for machines and instances	Excluded Tasks		n/a	n/a
905	TO_FC_1.1.09	Activate/Deactivate machine in the FC Admin console	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
906	TO_FC_1.1.10	Start/Stop instances in the FC Admin console	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
907	TO_FC_1.1.11	Create scheduled tasks for starting and stopping servers	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
908	TO_FC_1.1.12	Create/Delete Data Source(s)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
909	TO_FC_1.1.13	Create FC transport folder	Standard Services		n/a	n/a
910	TO_FC_1.1.14	Restart FC platform periodically	Standard Services		n/a	n/a
911		<b>Monitoring</b>			.	.
912	TO_FC_1.2.04	Monitoring one FC application URL per SID	Standard Services	Limited to one URL per SID. Customer needs to provide URL to be monitored.	n/a	n/a
913	TO_FC_1.2.03	Monitoring of further FC application URLs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Customer needs to provide URL to be monitored.	Application Operations	A1
914		<b>Administration of HANA Databases</b>			.	.
915	TO_FC_1.3.01	Prerequisites for creating SAP HANA Modeling Views with Cube Designer	Excluded Tasks	Customer require access to HANA Studio and require HANA Customer Administration authorization.	n/a	n/a
916	TO_FC_1.3.02	Deleting rights created during Cube Deployments	Excluded Tasks	Customer require access to HANA Studio and require HANA Customer Administration authorization.	n/a	n/a
917		<b>Configure SAP Financial Consolidation Web Site</b>			.	.
918	TO_FC_1.4.01	Reconnecting Automatically	Standard Services		n/a	n/a
919	TO_FC_1.4.02	Activate the SAP Financial Consolidation Web Technical Log	Standard Services		n/a	n/a
920	TO_FC_1.4.03	Support long-term HTTP sessions with firewalls	Standard Services		n/a	n/a
921	TO_FC_1.4.04	Publish documents via a URL	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
922	TO_FC_1.4.05	Configure HTTPS	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
923	TO_FC_1.4.06	Customize the SAP Financial Consolidation Web Site Home page	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
924		<b>Configure SAP Financial Consolidation Web HTML5 Site</b>			.	.
925	TO_FC_1.5.01	Configure/Customize SAP Financial Consolidation Web HTML5 site advanced settings	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
926		<b>Archiving Tool</b>			.	.
927	TO_FC_1.6.01	Install and access the Archiving Tool	Standard Services		n/a	n/a
928	TO_FC_1.6.02	Execute archiving process	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
929		<b>Install and Configure the SAP NetWeaver BW Server to deploy Infocubes with SAP Financial Consolidation Cube Designer</b>			.	.
930	TO_FC_1.8.01	Install the FPM Basis component on the SAP NetWeaver BW server	Standard Services		n/a	n/a
931	TO_FC_1.8.02	Create BW NetWeaver Roles to deploy Infocubes with Cube Designer	Excluded Tasks		n/a	n/a
932	TO_FC_1.8.03	Install SAP EPM Solutions Connection Manager on the BOE platform	Standard Services		n/a	n/a
933	TO_FC_1.8.04	Configure the Central Management Console for SAP Cube Designer	Excluded Tasks		n/a	n/a
934	TO_FC_1.8.05	Configure the Central Management Server for a distributed installation	Additional Service	If requested during initial build, this will be configured as standard service.	n/a	n/a
935	TO_FC_1.8.06	Configure reverse proxy	Standard Services		n/a	n/a
936	TO_FC_1.8.07	Create an EPM Connection for SAP Financial Consolidation with NetWeaver BW Cubes or SAP PCM or SAP SSM or SAP HANA	Excluded Tasks		n/a	n/a
937		<b>Financial Information Management</b>			.	.
938	TO_FC_1.9.01	Configure the number of lines in a Flat File Preview	Standard Services		n/a	n/a
939	TO_FC_1.9.02	Configure Time-out Parameters	Standard Services		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
940		<b>X28 - GK Software</b>				
941		<b>Set-up and configuration</b>				
942	TO_GK_1.1.01	Set-up and manage GK Software directories	Standard Services		n/a	n/a
943	TO_GK_1.1.02	Create directory for source data file upload (if not already available)	Standard Services		n/a	n/a
944	TO_GK_1.1.03	Assist in copying various files related to GK software configuration to file system directories	Standard Services		n/a	n/a
945	TO_GK_1.1.04	Set-up of dynamic takeovers in the structures	Excluded Tasks		n/a	n/a
946	TO_GK_1.1.05	Set-up of structure level overwrites	Excluded Tasks		n/a	n/a
947	TO_GK_1.1.06	Set-up NetWeaver Config tool directory structure	Standard Services		n/a	n/a
948	TO_GK_1.1.07	Change language after installation	Standard Services		n/a	n/a
949	TO_GK_1.1.08	Set-up system level overwrite (system types)	Excluded Tasks		n/a	n/a
950	TO_GK_1.1.09	Configure customer specific organizational structure	Excluded Tasks		n/a	n/a
951	TO_GK_1.1.10	Configure basic Store Manager node	Standard Services		n/a	n/a
952	TO_GK_1.1.11	Install store templates	Excluded Tasks	Provider to share to copy files on to the OS level.	n/a	n/a
953	TO_GK_1.1.12	Import of store templates into Store Manager	Excluded Tasks		n/a	n/a
954	TO_GK_1.1.13	Assign template to the main Store Manager structure	Excluded Tasks		n/a	n/a
955	TO_GK_1.1.14	Import config into Hybrid Infoserver	Excluded Tasks		n/a	n/a
956	TO_GK_1.1.15	Configure HANA JDBC datasource connection pooling	Standard Services		n/a	n/a
957	TO_GK_1.1.16	Deploy EPA files into SAP NetWeaver Portal	Standard Services		n/a	n/a
958	TO_GK_1.1.17	Create customer store structure	Excluded Tasks		n/a	n/a
959	TO_GK_1.1.18	Configure GK Store Manager	Excluded Tasks		n/a	n/a
960	TO_GK_1.1.19	Import Global Configuration for Store Manager (data container)	Excluded Tasks		n/a	n/a
961	TO_GK_1.1.20	Configure GK Software Store Manager for stores or country level overrides	Excluded Tasks	Example: configuration of the POS Server it points to or LPS.	n/a	n/a
962	TO_GK_1.1.21	Import source data	Excluded Tasks		n/a	n/a
963	TO_GK_1.1.22	Configure GK ECON for Data import (defining the xml file for IDoc imports)	Excluded Tasks		n/a	n/a
964	TO_GK_1.1.23	Create and customize Reference Store (countries, district, stores)	Excluded Tasks		n/a	n/a
965	TO_GK_1.1.24	Create SAP NetWeaver datasource	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Functional Application Management	F1
966	TO_GK_1.1.25	Configure and assign data containers (Taxes, work groups, reasons of transactions etc.)	Excluded Tasks		n/a	n/a
967	TO_GK_1.1.26	Configure SDC data containers (assign variants etc.)	Excluded Tasks		n/a	n/a
968	TO_GK_1.1.27	Import templates and activation manually (e.g. EC config template, heartbeat monitor)	Excluded Tasks		n/a	n/a
969	TO_GK_1.1.28	Configure reference customer organizational structure (during installation)	Standard Services	Only the basic structure as per the setup procedures. The detailed functional structures is Customer / Project team responsibility.	n/a	n/a
970		<b>Operations</b>				
971	TO_GK_1.2.01	Assist customers with tasks in their area of responsibility, if OS access is required	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	In cases where the execution of tasks requires activities to be performed within the OS level and for which the customer is responsible according to this document. Customers and GK implementation partners will not get OS access to managed servers within the cloud environment. The service provider will support the customer, e.g. by taking over the tasks or by providing other methods to execute tasks. This line item only applies to infrequent/occasional assistance; projects requiring regular, longer and more general OS access for implementation, development and support cannot be supported via this line item. Extra service charge is calculated per server.	Functional Application Management	F1
972	TO_GK_1.2.02	Configure Application level JDBC Datasources	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Each central application on SAP NetWeaver must be linked to a database by a datasource entry. This entry has to be set via NetWeaver Administrator one time per application and must be available before the first launch of the related application.	Functional Application Management	F1
973	TO_GK_1.2.03	Modify HTTP requests	Additional Service		n/a	n/a
974	TO_GK_1.2.04	Change application server parameters after handover	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Modifying standard settings to changing customer requirements.	Functional Application Management	F1
975	TO_GK_1.2.05	Manage communication with the message server / application server using SSL	Standard Services		n/a	n/a
976	TO_GK_1.2.06	Define port ranges	Standard Services		n/a	n/a
977	TO_GK_1.2.07	GK Host Configuration via Portal Administration	Standard Services		n/a	n/a
978	TO_GK_1.2.08	Update by CDPL tool (Central Deployment update for Store components)	Excluded Tasks		n/a	n/a
979	TO_GK_1.2.09	Rebuild client	Additional Service	OS access required to run the scripts.	n/a	n/a
980	TO_GK_1.2.10	GK Software user management	Excluded Tasks		n/a	n/a
981	TO_GK_1.2.11	Map GK software users to SAP NetWeaver user management	Excluded Tasks		n/a	n/a
982	TO_GK_1.2.12	Backup and Restore - standard HANA and NW	Standard Services		n/a	n/a
983	TO_GK_1.2.13	Backup and Restore - sync after DB restore	Excluded Tasks		n/a	n/a
984	TO_GK_1.2.14	Synchronization of source data after database recovery	Excluded Tasks		n/a	n/a
985	TO_GK_1.2.15	Clean up obsolete content data and templates	Excluded Tasks		n/a	n/a
986	TO_GK_1.2.16	Define and implement log and trace strategy	Standard Services		n/a	n/a
987	TO_GK_1.2.17	Monitor basic technical functions using cloud monitoring environment	Standard Services		n/a	n/a
988	TO_GK_1.2.18	Monitor GK application using Enterprise Cockpit	Excluded Tasks		n/a	n/a
989	TO_GK_1.2.19	GK Business Process Monitoring	Excluded Tasks		n/a	n/a
990	TO_GK_1.2.20	Monitoring solution performance (node level performance using GK Performance Monitor)	Excluded Tasks	Provider to support copying the files into working directories.	n/a	n/a
991	TO_GK_1.2.21	Analyze database using GK PMON, GK STATS	Excluded Tasks		n/a	n/a
992		<b>Software Lifecycle Management for GK</b>				
993	TO_GK_1.3.01	Implement updates to the managed GK solution (software packages commonly available via the SAP Service Marketplace)	Standard Services		n/a	n/a
994	TO_GK_1.3.02	Implement customer specific updates to the managed GK solution (software packages not commonly available via the SAP Service Marketplace)	Additional Service		n/a	n/a
995	TO_GK_1.3.03	Upgrade of managed GK solution to the next higher major software version	Additional Service		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
996		X29 - SAP TREX			.	.
997		TREX operations			.	.
998	TO_TREX_1.1.14	Post-Installation Configuration and Connection TREX with an Application (Java or ABAP)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	This includes activities Post-Installation Configuration and Connection between TREX and an Application (Java or ABAP) as is described in Official Product documentation ( <a href="http://help.sap.com">help.sap.com</a> )	Application Operations	A1
999	TO_TREX_1.1.15	Administer TREX indices	Excluded Tasks		n/a	n/a
1000	TO_TREX_1.1.16	Administer Taxonomies	Excluded Tasks		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1001		<b>X31 - SAP Solution Manager</b>				
1002		<b>Installation and Configuration</b>				
1003	TO_SOLM_1.1.01	Set-up and configuration of ITSM in SAP Solution Manager	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Functional Application Management	F1
1004	BASIC_1.8.07	Set-up monitoring with Customer Solution Manager located in the cloud: Install additional Diagnostics Agent on customer systems	Standard Services	Connecting an SAP Solution Manager system owned by the customer operated in the cloud (not the central SAP Solution Manager system owned by service provider).	n/a	n/a
1005	BASIC_1.8.18	Set-up monitoring with Customer Solution Manager located in cloud: Configure monitoring within the customers SAP Solution Manager system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Service charge is calculated per server; monitoring set-up is done using only SAP Solution manager standard templates, no customer specific settings and adjustments included.	Application Operations or Customer Application Monitoring	A1, M2
1006	BASIC_1.8.26	Configure Solution Manager: Focused Insight standard dashboard	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	No customer specific settings and adjustments included.	Application Operations or Customer Application Monitoring	A1, M2
1007		<b>X33 - SAP Test Data Migration Server (TDMS)</b>				
1008		<b>Installation and Configuration</b>				
####	TO_TDMS_1.1.01	Set-up of Control System (TDMS server) and set-up of receiver system (target server)	Standard Services		n/a	n/a
####	TO_TDMS_1.1.02	Patching of the sender systems (source system)	Standard Services		n/a	n/a
####	TO_TDMS_1.1.03	TDMS initial configuration, client creation, set-up RFC connections, set-up authorizations, Shell Creation	Standard Services		n/a	n/a
####	TO_TDMS_1.1.04	Set scrambling data, customize, using BPL modeler	Excluded Tasks		n/a	n/a
1013		<b>X34 - SAP PowerDesigner</b>				
1014		<b>Operational Set-up</b>				
####	TO_PWR_1.1.01	Install components (Portal, Repo, Proxy)	Standard Services	Install and set-up SAP PowerDesigner repository including any support package and patch updates. SAP ASE database will be set-up as repository server. Install and configure Apache Tomcat Server on portal server for remote web access. Install and set-up SAP PowerDesigner admin server as staging server for initial deployment. Export/import of SAP PowerDesigner Web application files to portal server.	n/a	n/a
####	TO_PWR_1.1.02	Install Proxy	Standard Services	Install and set-up SAP PowerDesigner proxy server - will be installed on same server as SAP PowerDesigner admin server. This is an optional component.	n/a	n/a
####	TO_PWR_1.1.03	Set-up and configuration	Standard Services	Install and set-up ODBC drivers for SAP HANA as data source. Additional data sources set-up will incur extra service charge. Set-up and configure authentication for portal and repository servers. Authorization set-up - provision specific user and roles for SAP PowerDesigner portal and repository Access.	n/a	n/a
####	TO_PWR_1.1.04	SSL/TLS Configuration - Portal Set-up	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Set-up secure communication through SSL/TLS configuration.	Application Operations	A1
####	TO_PWR_1.1.05	Single Sign On (SSO) with Windows Active Directory	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
1020		<b>X35 - bowbridge Anti-Virus for SAP Solutions</b>				
1021		<b>Installation and Configuration</b>				
####	TO_BB_AV_1.1.01	Verify files signature or comparing checksum	Standard Services	Check that bowbridge software is original and unmodified.	n/a	n/a
####	TO_BB_AV_1.1.02	Install bowbridge software	Standard Services		n/a	n/a
####	TO_BB_AV_1.1.03	Configure application layer	Excluded Tasks		n/a	n/a
####	TO_BB_AV_1.1.04	Update bowbridge software	Standard Services	Customer must inform provider and provide software update.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1026		<b>X36 - SAP Billing and Revenue Innovation Management</b>			.	.
1027		<b>SAP Convergent Charging</b>			.	.
1028		<b>Installation and Configuration</b>			.	.
####	TO_BRIM_CC_1.1.01	Install SAP Convergent Charging database	Standard Services		n/a	n/a
####	TO_BRIM_CC_1.1.02	Install SAP Convergent Charging core server	Standard Services		n/a	n/a
####	TO_BRIM_CC_1.1.03	Post Installation steps - Convergent Charging Cockpit and Core tool installation	Standard Services		n/a	n/a
1032		<b>Operations</b>			.	.
####	TO_BRIM_CC_1.2.01	Start/stop system	Standard Services		n/a	n/a
####	TO_BRIM_CC_1.2.02	Apply Updates	Standard Services		n/a	n/a
####	TO_BRIM_CC_1.2.03	Version upgrade	Additional Service		n/a	n/a
####	TO_BRIM_CC_1.2.04	Monitoring	Standard Services		n/a	n/a
####	TO_BRIM_CC_1.2.05	Standard technical parameter setting and activation with restart	Standard Services	If required per SAP Note, the product support team, or a top issue.	n/a	n/a
####	TO_BRIM_CC_1.2.06	Additional parameter settings	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
####	TO_BRIM_CC_1.2.07	Additional instance installation	Additional Service		n/a	n/a
####	TO_BRIM_CC_1.2.08	System refresh	Additional Service		n/a	n/a
####	TO_BRIM_CC_1.2.09	Configure Transports	Standard Services		n/a	n/a
####	TO_BRIM_CC_1.2.10	Enable SSL service	Additional Service		n/a	n/a
####	TO_BRIM_CC_1.2.11	Parameter update	Additional Service		n/a	n/a
1044		<b>SAP Convergent Mediation by DigitalRoute</b>			.	.
1045		<b>Installation and Configuration</b>			.	.
####	TO_BRIM_CM_1.1.01	Install SAP Convergent Mediation Database	Standard Services		n/a	n/a
####	TO_BRIM_CM_1.1.02	Install SAP Convergent Mediation Control Zone and Execution Zone set-up	Standard Services		n/a	n/a
####	TO_BRIM_CM_1.1.03	Post Installation steps	Standard Services		n/a	n/a
####	TO_BRIM_CM_1.1.04	Install SAP Convergent Mediation Execution Control Standalone (ECSA) set-up	Standard Services		n/a	n/a
1050		<b>Operations</b>			.	.
####	TO_BRIM_CM_1.2.01	Disaster Recovery procedures and testing for reprocessing of events	Excluded Tasks		n/a	n/a
####	TO_BRIM_CM_1.2.02	Deletion of collected files after checkpoint batch	Excluded Tasks		n/a	n/a
####	TO_BRIM_CM_1.2.03	Push Data Records from customer sFTP server to cloud environment sFTP server	Excluded Tasks		n/a	n/a
####	TO_BRIM_CM_1.2.04	Start/stop system	Standard Services		n/a	n/a
####	TO_BRIM_CM_1.2.05	Start/stop specific Pico instance	Standard Services		n/a	n/a
####	TO_BRIM_CM_1.2.06	Monitoring	Standard Services	Availability monitoring only.	n/a	n/a
####	TO_BRIM_CM_1.2.07	Standard technical parameter setting and activation with restart	Standard Services	If required per SAP Note, the product support team, or a Top Issue.	n/a	n/a
####	TO_BRIM_CM_1.2.08	Additional parameter settings	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Data Management for BRIM	D7
####	TO_BRIM_CM_1.2.09	Install, add, and upgrade Pico instances	Additional Service		n/a	n/a
####	TO_BRIM_CM_1.2.10	Import/Export Workflows configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BRIM_CM_1.2.11	Maintain External Reference files	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BRIM_CM_1.2.12	Install license	Standard Services		n/a	n/a
####	TO_BRIM_CM_1.2.13	System refresh	Additional Service		n/a	n/a
####	TO_BRIM_CM_1.2.14	Perform BRIM data management activities	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Data Management for BRIM	D7
####	TO_BRIM_CM_1.2.15	Install CA signed certificate on CM	Additional Service		n/a	n/a
####	TO_BRIM_CM_1.2.16	Configure OAuth2 Service	Additional Service		n/a	n/a
1067		<b>X37 - SAP Manufacturing Integration and Intelligence</b>			.	.
1068		<b>Implementation and Configuration</b>			.	.
####	TO_MII_1.1.01	Set-up Plant Connectivity (PCo) for SAP Overall Equipment Effectiveness (OEE) Functionality	Excluded Tasks		n/a	n/a
####	TO_MII_1.1.02	Set-up ALE user	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_MII_1.1.03	Establish ALE connection to customer's ERP system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_MII_1.1.04	Execute CTC Template for SAP Overall Equipment Effectiveness (OEE) Management: SAP NetWeaver	Excluded Tasks		n/a	n/a
####	TO_MII_1.1.05	Execute CTC Template for SAP Overall Equipment Effectiveness (OEE) Management: Integration Interfaces	Excluded Tasks		n/a	n/a
####	TO_MII_1.1.06	Configure SAP Overall Equipment Effectiveness Management	Excluded Tasks		n/a	n/a
####	TO_MII_1.1.07	Create XMII Users and perform Roles Assignments	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
1076		<b>X38 - SAP Manufacturing Execution</b>			.	.
1077		<b>Operational Set-up</b>			.	.
####	TO_ME_1.1.01	Execute CTC Template for SAP NetWeaver Engine Configuration	Standard Services		n/a	n/a
####	TO_ME_1.1.02	Execute CTC Template for SAP Database Set-up	Standard Services		n/a	n/a
####	TO_ME_1.1.03	Execute CTC Template for SAP ME Configuration	Excluded Tasks		n/a	n/a
####	TO_ME_1.1.04	Execute SAP ME Scripts	Excluded Tasks		n/a	n/a
####	TO_ME_1.1.05	Perform SAP ME and ERP Integration	Excluded Tasks		n/a	n/a
####	TO_ME_1.1.06	Install Adobe Document Services	Optional Services		n/a	n/a
1084		<b>X39 - R Integration</b>			.	.
1085		<b>Operational Set-up</b>			.	.
####	TO_RINT_1.1.02	Install R Integration Components	Standard Services	R, R Server, and dependent packages are installed independently from the SAP HANA database.	n/a	n/a
####	TO_RINT_1.1.03	Perform technical post-installation tasks	Standard Services	Set-up SAP HANA configuration for index and XS Engine parameters for R Integration. Set-up R Server authentication and authorization. Provision cloud environment specific user and roles for R Integration. Configure and set-up R Integration nodes for each tenant database including, service initialization, cockpit access, delivery units, and verification.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
###	TO_RINT_1.1.04	R Integration - Additional hosts set-up for High Availability (HA)	Optional Services	Add and set-up R Integration additional nodes. High Availability set-up and configuration involves single or multi-tenant database set-up including R Integration group set-up. For R Integration LoadBalancer set-up, check R&R Section "LoadBalancer".	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1089		<b>X40 - SAP SQL Anywhere - Mobilink</b>			.	.
1090		<b>Implementation and Configuration</b>			.	.
####	TO_SQLA_ML_1.1.01	Install and activate SQLAnywhere Mobilink Services	Standard Services	Install and set-up of SQLA Mobilink Server including any support package and patch updates. Import of Mobilink system object to consolidated database. Note: Prior to Mobilink install, an SAP HANA database should already be provisioned as a consolidated database.	n/a	n/a
####	TO_SQLA_ML_1.1.02	Perform technical post-installation tasks	Standard Services	Activate Mobilink roles, privileges and object access for monitoring and operations. Provision cloud environment specific user and roles. Configure and set-up Mobilink nodes for each SAP HANA tenant database including, service initialization, delivery units and verification.	n/a	n/a
####	TO_SQLA_ML_1.1.03	Mobilink - Single Sign On (SSO) Set-up	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
####	TO_SQLA_ML_1.1.04	Mobilink - Additional Host Set-up for High Availability (HA)	Optional Services	Add and configuring additional hosts for high availability set-up. For multi-tenant set-up, Mobilink nodes are added exclusively to each tenant database. For Mobilink LoadBalancer set-up, check R&R Section "LoadBalancer"	n/a	n/a
####	TO_SQLA_ML_1.1.05	Set-up and configure synchronization scripts	Excluded Tasks	Configure synchronization script for upload and download of data between remote and consolidated databases.	n/a	n/a
1096		<b>X41 - SAP Analytics Cloud</b>			.	.
1097		<b>SAP Analytics Cloud Tenant</b>			.	.
####	TO_SAC_1.1.01	Establish connection between SAP Analytics Cloud and managed system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_SAC_1.1.02	Set-up Single Sign On (SSO) communication with Principle Propagation from SAP Analytics Cloud to SAP S/4HANA	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
####	TO_SAC_1.1.03	Create or change user/roles or SAP as Identity Provider	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
1101		<b>SAP Analytics Cloud Agent</b>			.	.
####	TO_SAC_1.2.01	Install SAP Analytics Cloud Agent	Standard Services		n/a	n/a
####	TO_SAC_1.2.02	Configure SAP Analytics agent - Cloud Connector	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_SAC_1.2.02A	Configure SAP Analytics - Java Connector	Standard Services		n/a	n/a
####	TO_SAC_1.2.03	Configure SAP Analytics Cloud with connections requiring SAP Analytics agent such as SAP S/4HANA, ERP	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
1106		<b>SAP S/4HANA Tasks for SAP Analytics Cloud</b>			.	.
####	TO_SAC_1.3.01	Configure STRUST for SSL settings	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_SAC_1.3.02	Activate Embedded BW content (BEx queries etc.)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_SAC_1.3.03	Enable INA for Analytics Cloud	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_SAC_1.3.04	Enable CORS Analytics Cloud and edit allowlist	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1111		<b>X42 - SAP Business Technology Platform - BTP (formerly SAP Cloud Platform)</b>				
1112		<b>Global Account and Subaccount(s)</b>				
####	TO_BTP_1.1.01	Create or change subaccounts related to cloud system (DEV, QAS, PRD etc.)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or SAP BTP Core Operations	A1, A3
####	TO_BTP_1.1.01_PCE	Create or change subaccounts related to managed system (DEV, QAS, PRD etc.) - SAP Forms by Adobe (Adobe Document Services/ADS)	Standard Services	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: Create sub account for ADS processing in SAP-owned global account. Limited to S/4HANA and SAP ERP Central Component (SAP ECC) deployments.	n/a	n/a
####	TO_BTP_1.1.02	Create or change entitlements in the Global Account	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or SAP BTP Core Operations	A1, A3
####	TO_BTP_1.1.03	Activate Business Technology Platform service(s)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or SAP BTP Core Operations	A1, A3
####	TO_BTP_1.1.03_PCE	Activate Business Technology Platform service(s) - SAP Forms by Adobe (Adobe Document Services/ADS)	Standard Services	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: Enable ADS service in BTP subaccount (created in SAP-owned global account). Limited to S/4HANA and SAP ERP Central Component (SAP ECC) deployments.	n/a	n/a
####	TO_BTP_1.1.04	Create or change user/roles	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or SAP BTP Core Operations	A1, A3
####	TO_BTP_1.1.04_PCE	Create or change user/roles - SAP Forms by Adobe (Adobe Document Services/ADS)	Standard Services	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: In SAP-owned global account - Perform basic role assignment; Assign relevant user to ADSAdmin role; Assign relevant user to ADSCaller role. Limited to S/4HANA and SAP ERP Central Component (SAP ECC) deployments.	n/a	n/a
####	TO_BTP_1.1.05	Create or change connectivity destinations	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or SAP BTP Core Operations	A1, A3
####	TO_BTP_1.1.05_PCE	Create or change connectivity destinations - SAP Forms by Adobe (Adobe Document Services/ADS)	Standard Services	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: Create destination for ABAP backend system. Limited to S/4HANA and SAP ERP Central Component (SAP ECC) deployments.	n/a	n/a
####	TO_BTP_1.1.06	Manage certificates (issue, import, export)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or SAP BTP Core Operations	A1, A3
####	TO_BTP_1.1.07	Create or change custom application domains settings	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or SAP BTP Core Operations	A1, A3
####	TO_BTP_1.1.08_PCE	Create subaccounts related to S/4 PCE system for BTP starter pack	Standard Services	Limited to One (1) for non-production tier and One (1) for production tier. Includes Cloud Foundry enablement and Default Space creation and core services activation.	n/a	n/a
####	TO_BTP_1.1.09_PCE	Application subscription and subaccount configuration to integrate and establish connectivity with S/4 HANA PCE	Standard Services	Example: LBN shipper, LBN Carrier sub-account related activities.	n/a	n/a
1126		<b>Identity Provider</b>				
####	TO_BTP_1.2.01	Configure local provider settings	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.2.02	Configure Trust Relationships and Federation Settings for external Identity Providers (e.g. Microsoft, Okta)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.2.03	Configure Trust Relationships and Federation Settings for SAP Identity Authentication Tenant	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.2.04	Configure Principle Propagation Business Technology Platform, SAP Cloud Connector and SAP S/4HANA	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.2.05	Activate CERTRULE for the purpose of client based certificates	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	If an existing SAP S/4HANA system is to be used for the integration.	Application Operations	A1
####	TO_BTP_1.2.06	User Migration to Business Technology Platform Identity Authentication Tenant	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1



Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1133		<b>SAP S/4HANA Tasks for SAP Business Technology Platform - BTP (formerly SAP Cloud Platform)</b>			-	-
####	TO_BTP_1.3.01	Configure STRUST for SSL settings	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.3.01_PCE	Configure STRUST for SSL settings - SAP Forms by Adobe (Adobe Document Services/ADS)	Standard Services	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: Import the required security certificates into AS ABAP. Limited to S/4HANA and SAP ERP Central Component (SAP ECC) deployments.	n/a	n/a
####	TO_BTP_1.3.02	Activate ICF nodes required for sample Apps to be enabled	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.3.03	Activate OData Services required for sample Apps to be enabled	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.3.04	Enterprise Search Enablement (ESH)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.3.05	Create authorization role in backend system for OData processing	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	For relevant sample Apps.	Application Operations	A1
####	TO_BTP_1.3.06	Activate Embedded BW content for Analytical Fiori Apps	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.3.07	Enable INA for Analytical SAP Fiori Apps	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.3.08	Establish backend connectivity to Business Technology Platform Forms by Adobe	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Enables generation of print and interactive forms using Adobe Document Services (ADS); includes mandatory baseline configuration.	Application Operations	A1
####	TO_BTP_1.3.08_PCE	Establish backend connectivity to Business Technology Platform Forms by Adobe - Create and configure an RFC destination for SAP Forms by Adobe in AS ABAP	Standard Services	For X43 - SAP Forms by Adobe (Adobe Document Services/ADS) only: Create and configure an RFC destination for SAP Forms by Adobe in AS ABAP; Configure ICF Service to enable HTTP communication with SAP Forms by Adobe; Create the service user ADS_AGENT. Limited to S/4HANA and SAP ERP Central Component (SAP ECC) deployments.	n/a	n/a
1144		<b>Portal</b>			-	-
####	TO_BTP_1.4.01	Create or change SAP Fiori Launchpad sites (site directory and site settings)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
####	TO_BTP_1.4.02	Create or change roles	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Secure Users & Authorizations	A1, S2
####	TO_BTP_1.4.03	Create or change groups including role assignment	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Secure Users & Authorizations	A1, S2
####	TO_BTP_1.4.04	Create or change catalogs including role assignment	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Secure Users & Authorizations	A1, S2
####	TO_BTP_1.4.05	Enable SAP Fiori sample apps and perform required connectivity set-up	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
1150		<b>Integration Suite</b>			-	-
####	TO_BTP_1.5.01	Test execution for every update of SAP Business Technology Platform - BTP (formerly SAP Cloud Platform) integration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Perform the automated execution of regression test scripts whenever an update of SAP Cloud Platform takes place.	Cloud Integra	T2
####	TO_BTP_1.5.02	Create test automation scripts for SAP Business Technology Platform - BTP (formerly SAP Cloud Platform)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Create automated test scripts based on customer i-Flows with sample input & output messages.	Cloud Integra	T2
####	TO_BTP_1.5.03	Application of changes (Test automation script modification)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Perform modification of test automation scripts.	Cloud Integra	T2
####	TO_BTP_1.5.04	Perform maintenance and update of automated test cases	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		SAP S/4HAN	T3

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1155		X43 - SAP Forms by Adobe (Adobe Document Services/ADS)	SAP Cloud Connector and SAP Business Technology Platform - BTP (formerly SAP Cloud Platform) are prerequisites.			
1156		<b>Installation and Configuration</b>				
####	TO_ADS_1.1.01	Test ADS functionality and create test PDF	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Test and check communications and functionality. Applicable if SAP Forms by Adobe (Adobe Document Services/ADS) is configured in a customer owned BTP account.	Regression Testing	T1
####	TO_ADS_1.1.02	Data Migration from on premise ADS to ADS on BTP - customer account	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Applicable if SAP Forms by Adobe (Adobe Document Services/ADS) is configured in a customer owned BTP account.	Application Operations	A1
####	TO_ADS_1.1.02A	Data Migration from on premise ADS to ADS on BTP - SAP account	Standard Services	Only applicable when SAP Forms by Adobe (Adobe Document Services/ADS) is set up in SAP-owned global BTP account	n/a	n/a
####	TO_ADS_1.1.03	Configure Fonts and Print Information using XDC and XCI Files - customer account	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Applicable if SAP Forms by Adobe (Adobe Document Services/ADS) is configured in a customer owned BTP account.	Application Operations	A1
####	TO_ADS_1.1.03A	Configure Fonts and Print Information using XDC and XCI Files - SAP account	Standard Services	Only applicable when SAP Forms by Adobe (Adobe Document Services/ADS) is set up in SAP-owned global BTP account	n/a	n/a
####	TO_ADS_1.1.04	Configure document security - customer account	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Applicable if SAP Forms by Adobe (Adobe Document Services/ADS) is configured in a customer owned BTP account.	Application Operations	A1
####	TO_ADS_1.1.04A	Configure document security - SAP account	Standard Services	Only applicable when SAP Forms by Adobe (Adobe Document Services/ADS) is set up in SAP-owned global BTP account	n/a	n/a
####	TO_ADS_1.1.05	Configure job profiles- customer account	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Applicable if SAP Forms by Adobe (Adobe Document Services/ADS) is configured in a customer owned BTP account.	Application Operations	A1
####	TO_ADS_1.1.05A	Configure job profiles - SAP account	Standard Services	Only applicable when SAP Forms by Adobe (Adobe Document Services/ADS) is set up in SAP-owned global BTP account	n/a	n/a
####	TO_ADS_1.1.06	End-to-end enablement of SAP BTP service SAP Forms by Adobe for S/4HANA systems	Standard Services	SAP Forms by Adobe (Adobe Document Services/ADS) enablement including all required sub steps and activities: Create and configure an RFC destination for SAP Forms by Adobe in AS ABAP: Configure ICF Service to enable HTTP communication with SAP Forms by Adobe; Create the service user ADS_AGENT.	n/a	n/a
####	TO_ADS_1.1.07	End-to-end enablement of SAP BTP service SAP Forms by Adobe for NetWeaver based systems other than S/4HANA	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	SAP Forms by Adobe (Adobe Document Services/ADS) enablement including all required sub steps and activities: Create and configure an RFC destination for SAP Forms by Adobe in AS ABAP: Configure ICF Service to enable HTTP communication with SAP Forms by Adobe; Create the service user ADS_AGENT. Customer to provide credentials for BTP global / subaccount to be used.	Application Operations	A1
1168		<b>X44 - SAP Enterprise Threat Detection (ETD)</b>				
1169		<b>Build Phase</b>				
####	TO_ETD_1.1.01	Install ETD on SAP HANA	Standard Services	Import ETD delivery unit in HANA and enable mandatory ETD background jobs.	n/a	n/a
####	TO_ETD_1.1.02	Install and configure ETD Streaming solution	Excluded Tasks	Initialize ETD Launchpad; install and configure ETD Streaming applications; install and configure Apache Kafka; initial configuration of ETD Streaming certificates.	n/a	n/a
####	TO_ETD_1.1.03	Configure provisioning logs from SAP NetWeaver ABAP based system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Excludes prerequisite SAP Notes implementation.	Enterprise Threat Detection	S9
####	TO_ETD_1.1.04	Configure provisioning logs from SAP HANA-based system	Excluded Tasks		n/a	n/a
####	TO_ETD_1.1.05	Configure provisioning logs from SAP NetWeaver JAVA-based system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
####	TO_ETD_1.1.06	Configure provisioning logs from other systems including OS	Excluded Tasks		n/a	n/a
1176		<b>Run Phase</b>				
####	TO_ETD_1.2.01	Schedule/Adjust individual ETD HANA background jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Enable optional ETD background jobs.	Enterprise Threat Detection	S9
####	TO_ETD_1.2.02	Adjust individual ABAP source system background jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
####	TO_ETD_1.2.03	Import New ETD Content Packages	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
####	TO_ETD_1.2.04	Define ETD namespaces	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
####	TO_ETD_1.2.05	Define ETD locations	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
####	TO_ETD_1.2.06	Basis Alert Monitoring	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Perform ETD security monitoring for the agreed patterns for the logs from customer system.	Enterprise Threat Detection	S9
####	TO_ETD_1.2.07	Enhanced Analyses	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Execute proactive threat hunting and analyze specific suspicion.	Enterprise Threat Detection	S9
####	TO_ETD_1.2.08	Content Adaption	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Create/update and implement new/updated and agreed pattern.	Enterprise Threat Detection	S9
####	TO_ETD_1.2.09	Upgrade ETD on SAP HANA	Standard Services	Import new ETD delivery unit in HANA and re-enable mandatory ETD background jobs.	n/a	n/a
####	TO_ETD_1.2.10	Re-enable/re-connect ABAP/Java source system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Reconnect ABAP/Java source systems after source system upgrades/migrations.	Enterprise Threat Detection	S9
####	TO_ETD_1.2.11	ETD Streaming certificate handling	Excluded Tasks		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1188		<b>X44 - SAP Enterprise Threat Detection (ETD)</b>				
1189		<b>Build Phase</b>				
1190	TO_ETD_1.1.01	Install ETD on SAP HANA	Standard Services	Import ETD delivery unit in HANA and enable mandatory ETD background jobs.	n/a	n/a
1191	TO_ETD_1.1.02	Install and configure ETD Streaming solution	Excluded Tasks	Initialize ETD Launchpad; install and configure ETD Streaming applications; install and configure Apache Kafka; initial configuration of ETD Streaming certificates.	n/a	n/a
1192	TO_ETD_1.1.03	Configure provisioning logs from SAP NetWeaver ABAP based system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Excludes prerequisite SAP Notes implementation.	Enterprise Threat Detection	S9
1193	TO_ETD_1.1.04	Configure provisioning logs from SAP HANA-based system	Excluded Tasks		n/a	n/a
1194	TO_ETD_1.1.05	Configure provisioning logs from SAP NetWeaver JAVA-based system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
1195	TO_ETD_1.1.06	Configure provisioning logs from other systems including OS	Excluded Tasks		n/a	n/a
1196		<b>Run Phase</b>				
1197	TO_ETD_1.2.01	Schedule/Adjust individual ETD HANA background jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Enable optional ETD background jobs.	Enterprise Threat Detection	S9
1198	TO_ETD_1.2.02	Adjust individual ABAP source system background jobs	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
1199	TO_ETD_1.2.03	Import New ETD Content Packages	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
1200	TO_ETD_1.2.04	Define ETD namespaces	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
1201	TO_ETD_1.2.05	Define ETD locations	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Enterprise Threat Detection	S9
1202	TO_ETD_1.2.06	Basis Alert Monitoring	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Perform ETD security monitoring for the agreed patterns for the logs from customer system.	Enterprise Threat Detection	S9
1203	TO_ETD_1.2.07	Enhanced Analyses	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Execute proactive threat hunting and analyze specific suspicion.	Enterprise Threat Detection	S9
1204	TO_ETD_1.2.08	Content Adaption	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Create/update and implement new/updated and agreed pattern.	Enterprise Threat Detection	S9
1205	TO_ETD_1.2.09	Upgrade ETD on SAP HANA	Standard Services	Import new ETD delivery unit in HANA and re-enable mandatory ETD background jobs.	n/a	n/a
1206	TO_ETD_1.2.10	Re-enable/re-connect ABAP/Java source system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Reconnect ABAP/Java source systems after source system upgrades/migrations.	Enterprise Threat Detection	S9
1207	TO_ETD_1.2.11	ETD Streaming certificate handling	Excluded Tasks		n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1208		<b>X45 - Zscaler ZPA Connector</b>			.	.
1209		<b>Implementation and Configuration</b>			.	.
1210	TO_ZPA_1.1.01	Install ZPA Connector and required OS packages	Optional Services		n/a	n/a
1211	TO_ZPA_1.1.02	Configure ZPA Connector	Optional Services		n/a	n/a
1212	TO_ZPA_1.1.03	Allowlist ZPA Connector IP addresses in LoadBalancer	Optional Services		n/a	n/a
1213	TO_ZPA_1.1.04	Configure connector in ZPA Admin Console	Excluded Tasks		n/a	n/a
1214	TO_ZPA_1.1.05	Provision ZPA Connector provisioning keys	Excluded Tasks		n/a	n/a
1215	TO_ZPA_1.1.06	Install client software	Excluded Tasks		n/a	n/a
1216	TO_ZPA_1.1.07	Client and end-user support	Excluded Tasks		n/a	n/a
1217	TO_ZPA_1.1.08	Sizing of required number of connectors	Excluded Tasks		n/a	n/a
1218	TO_ZPA_1.1.09	Integration with customer's IDP (SAML)	Excluded Tasks		n/a	n/a
1219	TO_ZPA_1.1.10	Install provisioning keys	Optional Services		n/a	n/a
1220		<b>X46 - SAP Omnichannel Banking (OCB)</b>			.	.
1221		<b>Implementation and Configuration</b>			.	.
1222	TO_OCB_1.1.01	Install Tomcat	Optional Services		n/a	n/a
1223	TO_OCB_1.1.02	Install OCB software Retail Banking or Business Banking (Digital)	Standard Services		n/a	n/a
1224	TO_OCB_1.1.03	Deploy Business Central and deploy Platform with customized WAR files	Excluded Tasks	Provider performs task for customer for SAP product WAR files and Customer provided customized WAR files	n/a	n/a
1225	TO_OCB_1.1.04	Develop WAR files	Excluded Tasks		n/a	n/a
1226		<b>X48 - Redwood RunMyJobs</b>			.	.
1227		<b>Installation and Configuration</b>			.	.
1228	TO_RMJ_1.1.01	Install Redwood platform agent and configure as Secure gateway	Standard Services	Installation and configuration of the agent on dedicated VMs. Installation of agents on servers running on managed systems is not allowed.	n/a	n/a
1229	TO_RMJ_1.1.02	Monitor agent	Standard Services		n/a	n/a
1230	TO_RMJ_1.1.03	Restart agent	Standard Services		n/a	n/a
1231	TO_RMJ_1.1.04	Scheduling of jobs	Excluded Tasks		n/a	n/a
1232	TO_RMJ_1.1.05	Manual design and implementation of process definitions	Excluded Tasks		n/a	n/a
1233	TO_RMJ_1.1.06	Integrate SAP system to Redwood RunMyJobs Cloud	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Connect business client to the Customer tenant. Technical user for communication needs to be provided by Customer.	Advanced Job Management	M3
1234		<b>X49 - SMTP Relay to Office365</b>			.	.
1235		<b>Installation and Configuration</b>			.	.
1236	TO_SMTP_1.1.01	Install smtp relay and required OS packages	Standard Services		n/a	n/a
1237	TO_SMTP_1.1.02	Configure smtp relay servers and LoadBalancers	Standard Services		n/a	n/a
1238	TO_SMTP_1.1.03	Allowlist of smtp relay IP's/FQDN in LoadBalancer and NSG	Standard Services		n/a	n/a
1239	TO_SMTP_1.1.04	Provisioning of certificates for TLS and authentication	Excluded Tasks		n/a	n/a
1240	TO_SMTP_1.1.05	Configure systems to use smtp relay server	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
1241	TO_SMTP_1.1.06	Configure O365 connector in O365	Excluded Tasks		n/a	n/a
1242	TO_SMTP_1.1.07	Install certificates	Standard Services		n/a	n/a
1243	TO_SMTP_1.1.08	Restart after failure	Standard Services		n/a	n/a
1244	TO_SMTP_1.1.09	Monitor smtp relay service	Standard Services		n/a	n/a
1245		<b>X50 - SAP Data Custodian (SDC) - Integration Service</b>	<b>Subject to availability on a case-by-case basis. SDC provides a subset of components which are each ordered separately.</b>		.	.
1246		<b>Transparency and Control Service (SAP S/4 HANA, ECC)</b>			.	.
1247	TO_SDC_1.1.01	Install on SAP S/4 HANA or ECC	Standard Services	Install on existing SAP S/4 HANA or ECC system with required version provided by customer for SDC integration.	n/a	n/a
1248	TO_SDC_1.1.02	SAP system profile parameters	Standard Services	Service Provider is responsible for executing this task as it can have an impact on system performance and availability. Includes recommendations for technical system parameters. Provider will also adjust parameters by customer request except for certain standardized settings required to maintain system stability or security. For SAP Data Custodian Transparency and Control to work, Service Provider needs to set profile parameter - downtime is required due to system restart.	n/a	n/a
1249	TO_SDC_1.1.03	Enable outbound connection via LoadBalancer	Standard Services	Allow outbound connection to SDC tenant. Customer to provide the URL for SDC tenant to allow outbound connection; customer will get this from customer's SDC team during the onboarding process.	n/a	n/a
1250		<b>Transparency and Control Service for Infrastructure (Hyperscaler)</b>			.	.
1251	TO_SDC_1.1.04A	Create infrastructure components on respective hyperscaler	Standard Services	There are infrastructure components (EventHub, PUB/SUB,S3 etc.) for each Hyperscaler which are required to enable the integration service.	n/a	n/a
1252	TO_SDC_1.1.04	Onboarding activities including configuring tenant with principal masking, and assessments/questionnaires	Excluded Tasks	Performed by customer's SDC team.	n/a	n/a
1253	TO_SDC_1.1.05	Configure the tenant with the SAP S/4HANA system	Excluded Tasks		n/a	n/a
1254	TO_SDC_1.1.06	Configure application synchronization for Principal[User] attributes	Excluded Tasks		n/a	n/a
1255	TO_SDC_1.1.07	Maintain use case policies in the Data Custodian tenant	Excluded Tasks		n/a	n/a
1256	TO_SDC_1.1.08	Remediate incidents for unauthorized accesses in the tenant	Excluded Tasks		n/a	n/a
1257	TO_SDC_1.1.09	Generate access log and other reports	Excluded Tasks		n/a	n/a
1258		<b>External Key Management (KMS) Integration</b>			.	.
1259		<b>Enabling HANA LSS and Keys Migration</b>			.	.
1260	TO_SDC_1.2.01	Installation HANA LSS and Key Migration	Additional Service	Requires HANA 2.0 SP06 or later and HANA encryption to be enabled.	n/a	n/a
1261		<b>Integration to Data Custodian</b>			.	.
1262	TO_SDC_1.3.01	Integrate HANA to Data Custodian KMS	Additional Service	Customer should have subscription to Data Custodian KMS and completed their on-board. HANA LSS should be installed.	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1263		<b>X51 - SAP Disclosure Management (DM)</b>			.	.
1264		<b>Installation</b>			.	.
1265	TO_SDM_1.1.01	Install DM components	Standard Services	IIS Web Server, DM Application Server, Task Engine, XBRL Service, and MS-SQL DB.	n/a	n/a
1266	TO_SDM_1.1.02	Install DM BW Connector	Standard Services		n/a	n/a
1267	TO_SDM_1.1.03	Install DM content packages	Standard Services	Scenario based.	n/a	n/a
1268		<b>Set-up and Configuration</b>			.	.
1269	TO_SDM_1.2.01	Post-install configuration	Standard Services		n/a	n/a
1270	TO_SDM_1.2.02	Configure BW connector	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
1271	TO_SDM_1.2.03	Configure DM Application Server SSL/TLS Secure Communication	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
1272	TO_SDM_1.2.04	Configure DM Application Server SSO with Windows AD	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
1273		<b>X52 - SAP 3D Visual Enterprise Generator (VEG)</b>			.	.
1274		<b>Installation</b>			.	.
1275	TO_VEG_1.1.01	Install VEG components	Standard Services	IIS Web Server, MSMQ Server, Application Server (Source) with Embedded MS-SQL Express DB.	n/a	n/a
1276	TO_VEG_1.1.02	Install additional VEG subordinate host	Standard Services		n/a	n/a
1277		<b>Set-up and Configuration</b>			.	.
1278	TO_VEG_1.2.01	Post-install configuration	Standard Services		n/a	n/a
1279	TO_VEG_1.2.02	Configure VEG SSL/TLS Secure Communication	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
1280	TO_VEG_1.2.03	Integration with ERP/ECC/S4HANA	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	OS access required. Assistance can be requested via task BASIC_1.1.14.	Application Operations	A1
1281	TO_VEG_1.2.04	Configure SSO with Windows AD	Excluded Tasks	Customer may engage other SAP services pertaining to SSO solutions for cloud environment.	n/a	n/a
1282		<b>X53 - SAP Content Server</b>			.	.
1283		<b>Installation and Operation</b>			.	.
1284	TO_SCS_1.1.01	Install Content Server	Standard Services		n/a	n/a
1285	TO_SCS_1.1.02	Install specific parameter definition	Standard Services		n/a	n/a
1286	TO_SCS_1.1.03	Content Server - System Copy	Standard Services	Up to Six (6) refreshes per SID, per contract year, are included. Additional refreshes are available on chargeable basis via TO_SCS_1.1.03A. Only available after initial build phase is complete. Note: Customer must provide additional information which will be aligned during request processing.	n/a	n/a
1287	TO_SCS_1.1.03A	Content Server - System Copy - Additional Requests	Additional Service	Additional refreshes beyond entitlement described in TO_SCS_1.1.03. Only available after initial build phase is complete. Note: Customer must provide additional information which will be aligned during request processing.	n/a	n/a
1288		<b>Configure repositories</b>			.	.
1289	TO_SCS_1.2.01	Generate server certificate (in case of SSL enablement)	Standard Services	After CA signing of SAPSSLS pse, certificate should be generated.	n/a	n/a
1290	TO_SCS_1.2.02	Add server certificate to SYSTEM PSE, SSL Server standard PSE in Strust transaction (in case of SSL enablement)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Per customer request.	Application Operations	A1
1291	TO_SCS_1.2.03	Technical configuration of repositories in OAC0	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Strategic/conceptual decisions to be made by customers/consulting.	Application Operations	A1
1292	TO_SCS_1.2.04	Connection test via RSCMST	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
1293	TO_SCS_1.2.05	Set SAPR3 password in customer's backend system	Standard Services		n/a	n/a
1294		<b>Patch Update</b>			.	.
1295	TO_SCS_1.3.01	SP update for content server version	Standard Services		n/a	n/a
1296	TO_SCS_1.3.02	SP update for MaxDB database	Standard Services		n/a	n/a
1297		<b>Version Upgrade</b>			.	.
1298	TO_SCS_1.4.01	Pre-checks for repository connection	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Connection test via RSCMST for all given repositories needs to be done.	Application Operations	A1
1299	TO_SCS_1.4.02	Technical Upgrade procedure - for releases up to 7.53	Additional Service	For upgrades up to release 7.53.	n/a	n/a
1300	TO_SCS_1.4.02A	Technical Upgrade procedure	Standard Services	For upgrades from 7.53 to 7.54 and beyond.	n/a	n/a
1301	TO_SCS_1.4.03	Post-upgrade configuration changes for repositories - for releases up to 7.53	Additional Service	For upgrades up to release 7.53.	n/a	n/a
1302	TO_SCS_1.4.03A	Post-upgrade configuration changes for repositories	Standard Services	For upgrades from 7.53 to 7.54 and beyond.	n/a	n/a
1303	TO_SCS_1.4.04	Technical post-checks for repository connection	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Connection test via RSCMST for all given repositories needs to be done.	Application Operations	A1
1304	TO_SCS_1.4.05	Functional validation of repositories	Excluded Tasks		n/a	n/a
1305		<b>X54 - SAP HANA Cockpit 2.0</b>			.	.
1306		<b>Installation and Configuration</b>			.	.
1307	TO_HANA_CP_1.1.03	Add and /Maintain resources (ex: HANA Systems) and resource groups	Excluded Tasks	Configure HANA cockpit deployed on managed landscape to manage HANA systems at customer premises. Customer can perform this task with a user provided by service provider.	n/a	n/a
1308	TO_HANA_CP_1.1.04	Monitor database resource consumption of HANA Cockpit	Standard Services	To detect issues in technical operations.	n/a	n/a
1309	TO_HANA_CP_1.1.05	User management	Excluded Tasks	Customer must maintain their users for HANA Cockpit.	n/a	n/a
1310	TO_HANA_CP_1.1.06	Update and upgrade of HANA Cockpit	Standard Services		n/a	n/a

SAP Enterprise Cloud Services  
RISE with SAP S/4HANA Cloud, private edition and SAP ERP,  
tailored option

ROLES AND RESPONSIBILITIES

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Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1311		<b>X55 - SAP Focus Run for Solution Manager (FRUN)</b>			.	.
1312		<b>Configuration</b>			.	.
1313	TO_FRUN_1.1.01	Allowlist IP addresses of customer's FRUN through managed system's firewall	Standard Services		n/a	n/a
1314	TO_FRUN_1.1.02	Create dedicated SSL client PSE in STRUST (self signed or signed by certificate authority) in FRUN	Excluded Tasks		n/a	n/a
1315	TO_FRUN_1.1.03	Import customer provided certificate into the SAP Host Agent	Standard Services		n/a	n/a
1316	TO_FRUN_1.1.04	Enable certificate based authentication to simple diagnostic agent	Standard Services		n/a	n/a
1317	TO_FRUN_1.1.05	Configure outside discovery to connect the managed system's Host Agent with customer FRUN system and maintain SLDR	Standard Services		n/a	n/a
1318	TO_FRUN_1.1.06	Configure SSL and monitoring in FRUN	Excluded Tasks		n/a	n/a
1319		<b>X56 - SAP S/4 HANA Integration Tasks for RISE with SAP PCE</b>			.	.
1320		<b>Configuration</b>			.	.
1321	TO_S4H_1.1.01_PCE	Configure Outbound internet proxy setting	Standard Services	Default integration tasks during provisioning only.	n/a	n/a
1322	TO_S4H_1.1.02_PCE	Integration of users and standard business roles	Standard Services	Default integration tasks during provisioning only.	n/a	n/a
1323	TO_S4H_1.1.03_PCE	SSL configuration	Standard Services	Default integration tasks during provisioning only.	n/a	n/a
1324	TO_S4H_1.1.04_PCE	Webservices activation - SICF, odata, SOAMANGER, RFC	Standard Services	Default integration tasks during provisioning only.	n/a	n/a
1325	TO_S4H_1.1.05_PCE	IMG/SPRO activities	Standard Services	Default integration tasks during provisioning only.	n/a	n/a
1326	TO_S4H_1.1.06_PCE	Fiori enablement tasks	Standard Services	Default integration tasks during provisioning only.	n/a	n/a
1327	TO_S4H_1.1.07_PCE	SLD configuration - RZ70 and Business system configuration	Standard Services	For Ariba Integration starter pack only. Default integration tasks during provisioning only.	n/a	n/a
1328		<b>X57 - SAP Cloud Application Lifecycle Management (CALM)</b>			.	.
1329		<b>Installation and Configuration</b>			.	.
1330	TO_CALM_1.1.01	Request and provision	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Core Operations for SAP Cloud ALM	A1, O2
1331	TO_CALM_1.1.02	Basic setup	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations	A1
1332	TO_CALM_1.1.03	Set-up connectivity to CALM	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Core Operations for SAP Cloud ALM	A1, O2
1333	TO_CALM_1.1.04	Set-up connectivity to Cloud TMS	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Application Operations or Core Operations for SAP Cloud ALM	A1, O2
1334	TO_CALM_1.1.05	Set-up Change and Deployment Management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Customer Deployment Planning and Execution	DP2
1335	TO_CALM_1.1.06	Set-up test management	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Regression Testing	T1

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1336		<b>X58 - SAP Teamcenter by Siemens</b>				
1337		<b>Installation and Configuration</b>				
1338	TO_TC_1.1.03	CAD integration (Solidworks, NX etc.)	Excluded Tasks	Client builds of CAD integration are not included. Installation of the CAD integrations are included as part of the License Feature Extension Service as these are additional add-ons to the base build.	n/a	n/a
1339	TO_TC_1.1.04	Build client	Excluded Tasks	All 4-Tier client builds on customer desktops are excluded.	n/a	n/a
1340	TO_TC_1.1.05	BMIDE client	Excluded Tasks	Customer responsible for managing the BMIDE installation on their desktop.	n/a	n/a
1341	TO_TC_1.1.08	Restart Teamcenter infrastructure	Standard Services	As part of planned maintenance or issue resolution.	n/a	n/a
1342	TO_TC_1.1.09	Rebuild indexing service	Additional Service	If indexes need to be rebuilt or repaired. Can be triggered to rebuild itself from the command line utility.	n/a	n/a
1343	TO_TC_1.1.12	Update / patch Teamcenter components - minor components only	Standard Services	Minor version/patch update of the Teamcenter application. (E.g.: X.2.1 to X.2.2, X.2.1 to X.3.2). Technical upgrade only.	n/a	n/a
1344	TO_TC_1.1.13	Revision upgrade of Teamcenter components - major components only	Additional Service	Major version upgrade of the Teamcenter application. (E.g.: Teamcenter 13.3 to 14.1/14.2). Technical upgrade only.	n/a	n/a
1345	TO_TC_1.1.14	License Feature Extension	Additional Service	Extend the installed features of the Teamcenter application to include elements purchased by the customer outside those of the standard build.	n/a	n/a
1346	TO_TC_1.1.19	Create new users	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Creation of new client user in the system. For bulk population of the Teamcenter system using the Make_user scripts and Excel based User / Group definition template. Customer is responsible for the population of the template; Service Provider will execute the scripts.	Application Operations for SAP Teamcenter by Siemens	A4
1347	TO_TC_1.1.20	Create new groups	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Creation of new client groups in the system. For bulk population of the Teamcenter system using the Make_user scripts and Excel based User / Role / Group definition template. Customer is responsible for the population of the template; Service Provider will execute the scripts.	Application Operations for SAP Teamcenter by Siemens	A4
1348	TO_TC_1.1.21	Create new roles	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Creation of new client role groups in the system. For bulk population of the Teamcenter system using the Make_user scripts and Excel based User / Role / Group definition template. Customer is responsible for the population of the template; Service Provider will execute the scripts.	Application Operations for SAP Teamcenter by Siemens	A4
1349	TO_TC_1.1.22	Apply ADA license configuration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Manage user license assignment within the application. ADA licenses are required for complex data access scenarios where specific licenses are required to be able to view and consume information. Requires user administration and license assignment.	Application Operations for SAP Teamcenter by Siemens	A4
1350	TO_TC_1.1.23	Teamcenter license assignment	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Management and application of licenses to users within Teamcenter.	Application Operations for SAP Teamcenter by Siemens	A4
1351	TO_TC_1.1.24	Activate/de-activate users	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Activating and deactivating user accounts. A deactivated account will no longer be able to login to Teamcenter, however data owned or records about the user are retained in the system. Unused licenses are returned to the pool.	Application Operations for SAP Teamcenter by Siemens	A4
1352	TO_TC_1.1.25	Deploy BMIDE template	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	A deployment package is created by the customer for deployment following the configuration extension of Teamcenter. The BMIDE application is used to trigger a deployment of the configuration in to the specific environment required. This action should be preceded with a system backup.	Application Operations for SAP Teamcenter by Siemens	A4
1353	TO_TC_1.1.26	Deploy development configuration to production system	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Copy the development environment and deploy configuration to PRD as part of Release Management.	Application Operations for SAP Teamcenter by Siemens	A4
1354	TO_TC_1.1.27	Manage BMIDE template	Excluded Tasks	Customer responsibility to manage and maintain the source BMIDE template and to verify the template being deployed.	n/a	n/a
1355	TO_TC_1.1.29	Create new volume	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Create a Teamcenter volume for data storage.	Application Operations for SAP Teamcenter by Siemens	A4
1356	TO_TC_1.1.30	Setup volume access	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Enable user access to Teamcenter volume.	Application Operations for SAP Teamcenter by Siemens	A4
1357	TO_TC_1.1.31	Change group volume access	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Change group access to Teamcenter volume.	Application Operations for SAP Teamcenter by Siemens	A4
1358	TO_TC_1.1.34	Administrate locked workflows	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Resolve locked workflows.	Application Operations for SAP Teamcenter by Siemens	A4
1359	TO_TC_1.1.36	Troubleshoot Teamcenter system performance issues (technical root causes within cloud service scope)	Standard Services	Based on the result of an initial assessment. Troubleshooting by Service Provider is only performed in situations caused by technical issues within the service scope and where the system performance lies outside usual and expectable behavior (e.g. as it has shown in the past in comparable load situations).	n/a	n/a

Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1360	TO_TC_1.1.37	Create classification hierarchy	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Create structure inside Teamcenter that enable the user to associate a business object for the purpose of reuse, easy identification or definition of common parts structures.	Application Operations for SAP Teamcenter by Siemens	A4
1361	TO_TC_1.1.38	Create new classification attribute	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Create information required about business objects being classified under this branch of the hierarchy.	Application Operations for SAP Teamcenter by Siemens	A4
1362	TO_TC_1.1.39	Classify information	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Ability to associate and populate the business object to the classification structure.	Application Operations for SAP Teamcenter by Siemens	A4
1363	TO_TC_1.1.40	Remove classified data	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Removal of an object classification.	Application Operations for SAP Teamcenter by Siemens	A4
1364	TO_TC_1.1.41	Remove classified hierarchies	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Remove branches of the classification structure.	Application Operations for SAP Teamcenter by Siemens	A4
1365	TO_TC_1.1.42	Workflow import	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Import workflows.	Application Operations for SAP Teamcenter by Siemens	A4
1366	TO_TC_1.1.43	Workflow export	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.	Export workflows.	Application Operations for SAP Teamcenter by Siemens	A4



Row	Identifier	Task	Responsibility	Remarks	CAS Package	Package Code
1367		<b>X59 - SAP Signavio Process Insights</b>				
1368		<b>Installation and Configuration</b>				
1369	TO_SBPI_1.1.01	Provision Signavio Process Insights on BTP in the respective Subaccount	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1370	TO_SBPI_1.1.02	Manage required technical users in S/4HANA for Signavio Process Insights integration	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1371	TO_SBPI_1.1.03	Manage integration with S/4HANA	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1372	TO_SBPI_1.1.04	Manage the Data Collector Jobs in S/4HANA	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1373	TO_SBPI_1.1.05	Manage the PUSH Data Provider in S/4HANA	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1374	TO_SBPI_1.1.06	Onboard Users in Identity Authentication Service related to Signavio Process Insights	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1375	TO_SBPI_1.1.07	Assign Roles to Users related to Signavio Process Insights	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1376	TO_SBPI_1.1.08	Activate standard predefined business process Key Performance Indicators (KPIs)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1377	TO_SBPI_1.1.09	Configure of thresholds for standard predefined business process Key Performance Indicators (KPIs)	SAP Cloud Application Services ("CAS") available at additional charge. Needs to be performed by customer if applicable and if the SAP CAS Service is not used.		Business Improvement Foundation	B1
1378		<b>X60 - SAProuter for Integration Scenarios</b>				
1379		<b>Installation and Configuration</b>				
1380	TO_SR_1.1.01	Install SAProuter	Standard Services		n/a	n/a
1381	TO_SR_1.1.02	Configure saprountab file	Standard Services	Configure saprountab entries based on integration scenarios: SAP SuccessFactors Employee Central Payroll or SAP GTS SEEBURGER Cloud Integration.	n/a	n/a
1382	TO_SR_1.1.03	SAProuter availability monitoring	Standard Services		n/a	n/a
1383	TO_SR_1.1.04	Non-SNC communication monitoring	Standard Services	Communication apart from integration scenarios: SAP SuccessFactors Employee Central Payroll or SAP GTS SEEBURGER Cloud Integration will generate alert.	n/a	n/a
1384		<b>X61 - SEEBURGER Cloud Integration for SAP Global Trade Services (GTS)</b>				
1385		<b>Installation and Configuration</b>				
1386	TO_SEE_1.1.01	SEEBURGER tenant creation	Excluded Tasks	Customer must make request to the SEEBURGER Team to create tenants in the SEEBURGER Cloud. This includes coordination with the SEEBURGER team to obtain necessary IPs to be allowlisted, SNC name, and certificates, etc.	n/a	n/a
1387	TO_SEE_1.1.02	Establish communication with backend	Standard Services	Post installation of SAProuter refer TO_SR_1.1.01 and TO_SR_1.1.02. Update the SNC name and SEEBURGER IPs in saprountab file to allow communication with backend SAP GTS system.	n/a	n/a
1388	TO_SEE_1.1.03	Establish communication between load balancer and SAProuter	Standard Services	Add SAProuter in backend pool of LoadBalancers (Application LoadBalancer & Network LoadBalancer) and allowlist the SEEBURGER tenant IPs which is provided by customer to facilitate communication. To setup LB refer to TO_LRP_1.1.01	n/a	n/a
1389	TO_SEE_1.1.04	ABAP System tasks	Excluded Tasks	Customer will be enable SNC (with recommended parameters for security hardening), creating RFC in the backend SAP GTS system and maintaining partner profiles as per business need. Customer will also update the certificates on the ABAP side received from SEEBURGER end and allow SAProuter host to register program on gateway in gateway ACL files (secinfo and reginfo). SOAManager configuration will be done by Customer. Customer should exchange ABAP system certificate with SEEBURGER and share ABAP system SNC name for the configuration. SEEBURGER Team will provide required templates.	n/a	n/a
1390		<b>X62 - SAP SuccessFactors: Employee Central Payroll - Integration</b>				
1391		<b>Installation and Configuration</b>				
1392	TO_SF_1.1.01	SAProuter Registration at SuccessFactors	Standard Services	Post SAProuter installation, create a ticket under component XX-SER-NET-NEW to register managed SAProuter. Refer to "Setting Up an SNC-Based SAProuter Connection for Employee Central Payroll Systems" guide for the template. Customer must ensure that the public IP is assigned to SAProuter via LoadBalancer.	n/a	n/a
1393	TO_SF_1.1.02	Allowlist SuccessFactors ECP IP	Standard Services	Refer to "Setting Up an SNC-Based SAProuter Connection for Employee Central Payroll Systems" guide to get the SuccessFactors ECP IP addresses based on regions.	n/a	n/a
1394	TO_SF_1.1.03	Import PSE to SAProuter	Standard Services	Download generated PSE from SAP For Me - saproutercertificate (formerly known as ONE Support Launchpad).	n/a	n/a

Service Cluster	SAP Cloud Application Services (SAP CAS) Package Scope	Package Name	Package Code	Link to SAP.com
Continuous Operations	SAP CAS for application operations	Application Operations	A1	<a href="#">Service Description</a>
	SAP CAS for SAP BTP core operations	SAP BTP Core Operations	A3	<a href="#">Service Description</a>
	SAP CAS for application operations for SAP Teamcenter by Siemens	Application Operations for SAP Teamcenter by Siemens	A4	<a href="#">Service Description</a>
Business Improvement	SAP CAS for customer - specific scope	Business Improvement Foundation	B1	<a href="#">Service Description</a>
Data Management	SAP CAS for customer - specific scope	Data Integration	D2	<a href="#">Service Description</a>
	SAP CAS for customer - specific scope	Data Lifecycle Management	D3	
	SAP CAS for customer - specific scope	Data Quality Management	D4	
	SAP CAS for customer - specific scope	Data Management for BRIM	D7	
	SAP CAS for data quality optimization	Data Quality Optimization	D5	<a href="#">Service Description</a>
	SAP CAS for data volume optimization	Data Volume Optimization	D6	<a href="#">Service Description</a>
Deployment Management	SAP CAS for customer - specific scope	Customer Deployment Strategy	DP1	<a href="#">Service Description</a>
	SAP CAS for customer - specific scope	Customer Deployment Planning and Execution	DP2	
	SAP CAS for customer - specific scope	Solution Manager - ChaRM	DP3	
Functional Application Management	SAP CAS for customer - specific scope	Functional Application Management	F1	<a href="#">Service Description</a>
Advanced Monitoring	SAP CAS for application monitoring	Application Monitoring	M1	<a href="#">Service Description</a>
	SAP CAS for customer - specific scope	Customer Application Monitoring	M2	<a href="#">Service Description</a>
	SAP CAS for customer - specific scope	Advanced Job Management	M3	
Operations Improvement	SAP CAS for customer - specific scope	Cloud Optimization	O1	<a href="#">Service Description</a>
	SAP CAS for core operations for SAP Cloud ALM	Core Operations for SAP Cloud ALM	O2	<a href="#">Service Description</a>
Performance Management	SAP CAS for customer - specific scope	Performance Testing	P1	<a href="#">Service Description</a>
	SAP CAS for customer - specific scope	Performance Optimization	P2	
	SAP CAS for customer - specific scope	Database Performance Management	P3	
	SAP CAS for core performance management	Core Performance Management	P4	<a href="#">Service Description</a>
Release Management	SAP CAS for release version upgrades	Release Version Upgrades	RM1	<a href="#">Service Description</a>
Advanced Security and Compliance	SAP CAS for application security updates	Application Security Updates	S1	<a href="#">Service Description</a>
	SAP CAS for customer - specific scope	Secure Users & Authorizations	S2	
	SAP CAS for customer - specific scope	Segregation of Duties Check	S3	
	SAP CAS for customer - specific scope	Audit Readiness	S4	
	SAP CAS for customer - specific scope	Security Risk Check	S6	
	SAP CAS for customer - specific scope	Security for Interface	S7	
	SAP CAS for customer - specific scope	Application Security Monitoring	S8	
	SAP CAS for customer - specific scope	Enterprise Threat Detection	S9	
Test Management	SAP CAS for regression testing	Regression Testing	T1	<a href="#">Service Description</a>
	SAP CAS for cloud integration testing	Cloud Integration Testing	T2	<a href="#">Service Description</a>
	SAP CAS for customer - specific scope	SAP S/4HANA Interface Testing	T3	<a href="#">Service Description</a>
	SAP CAS for customer - specific scope	SAP Integration Suite Testing	T4	<a href="#">Service Description</a>