



SAP HANA Enterprise Cloud

Advanced Edition Production - Roles & Responsibilities

Public
June 2020

© 2020 SAP SE. All rights reserved

© 2020 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. Please see <http://www.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.

Unless otherwise stated in a separate written agreement between SAP or an SAP affiliate and your company: (i) Your use of this SAP Site, and all information, materials, content and/or services provided on or through any SAP Sites, is governed by the Terms of Use located at <http://www.sap.com/corporate-en/about/legal/terms-of-use.html>; (ii) such information, materials, content and services are provided AS IS, without representation or warranty of any kind by SAP unless otherwise stated in the Terms of Use; (iii) SAP disclaims any responsibility or liability for information, content and/or services provided on any third-party web page(s) to which an SAP Site is linked; and, (iv) Use of any and all of the foregoing is at your own risk, and SAP expressly disclaims any and all liability for any and all uses.

SIX 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 HEC Computing Environment. Customers are responsible to review and analyze these tasks and make the selection of such tasks/services in collaboration with the assigned SAP HEC Cloud Architect Advisor ("CAA"), or with their SAP Engagement Lead ("EL").

| | |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HEC Standard Services | All tasks/services that are included as part of the standard HEC Services, covered by the HEC Service Fee and performed by SAP2, as applicable to customer. |
| HEC Optional Services | HEC Optional Services: these tasks/services are not covered in the standard HEC Services, and are not and cannot be covered by the Cloud Application Services1 ("CAS"). These tasks/services <ul style="list-style-type: none"> • may be elected by customer, • are subject to additional service fees, • must be specifically contracted for and itemized in the customer's contract (original HEC contract or via a change request), and • can only be performed by SAP2. |
| Cloud Application Services¹ ("CAS"). Can be performed by customer. | Cloud Application Services1 ("CAS"). Can be performed by customer: Include tasks/services that a customer can perform, but the customer may elect to have SAP2 to deliver. |
| Cloud Application Services¹ ("CAS"). <u>Cannot</u> be performed by customer. | Cloud Application Services1 ("CAS"). Cannot be performed by customer: Include tasks/services that a customer can not perform, but the customer may elect to have performed. These tasks/services can only be performed by SAP2. |
| HEC Additional Service | HEC Additional Service: Include tasks/services which are not covered by HEC Standard, HEC Optional and/or Cloud Application Services. These tasks/services <ul style="list-style-type: none"> • may be elected by customer, • are subject to additional service fees and • can only be performed by SAP². |
| HEC Excluded Tasks | HEC Excluded Tasks are those tasks/services that can only be performed by the customer and are excluded from HEC Standard Services, HEC Optional Services, HEC Additional Services and/or Cloud Application Services. |

¹ **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 HEC contract. CAS excludes all services involving the extension, reduction, or change of the customer's existing HEC 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.

² 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 HEC 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 the SAP HEC Cloud Architect Advisor ("CAA"), or with their SAP Engagement Lead ("EL").

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

The PDF version of this **SAP HANA Enterprise Cloud, Advanced Edition – Roles & Responsibilities** document made available by SAP at <http://www.sap.com/corporate-en/about/our-company/policies/cloud/hec-roles-and-responsibilities.html> 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.

| D | meaning |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| = | task is identical between Production and Project |
| <> | task is different between Production and Project; this may be that it is relevant only for one of the two HEC Services or that it is defined in a different way for each type of HEC Service |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | = | | 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 HEC service fees. Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler). |
| 1 | | A - Service Management | = | | For accounts delivered by a HEC premium partner, certain tasks in chapter "A - Service Management" are a joint effort between SAP and that HEC Premium Partner |
| 2 | | Account Management | = | | |
| 3 | SM_1.1.01 | Conduct Delivery & Operations Kick-Off -Review HEC Support Manual -Schedule Landscape Review and Scope Alignment -Detailed Engagement & Operations Review | = | HEC Standard Services | |
| 4 | SM_1.1.02 | Capacity Management Review: Quarterly 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. | = | HEC Standard Services | |
| 5 | SM_1.1.03 | Capacity Management Planning: Develop quarterly capacity plan based on technical capacity management review. | = | HEC Standard Services | |
| 6 | SM_1.1.04 | System outage notification and escalation management | = | HEC Standard Services | Handling of critical service situations aiming to bring the service back to targeted quality and standards. |
| 7 | SM_1.1.05 | Service Performance Review & Report – Monthly - Provide review and suggestions if a high volume of HEC support requests occurs - Service availability and KPIs | = | HEC Standard Services | |
| 8 | | Service Request Management - Technical Support | = | | |
| 9 | SM_1.2.01 | Use defined tracking system to enter and update technical requests | = | HEC Excluded Tasks | Change Requests (CR) or Change Orders subject to process defined in Agreement. |
| 10 | SM_1.2.09 | Service Request Management - Receive and acknowledge requests in SAP defined request tracking system - Assess criticality/priority of request, effort and approvals required - Coordinate request approval - Notify requester of approval or rejection - Coordinate request scheduling - Notification of request completion | = | HEC Standard Services | Handling of Service Requests which require commercial change requests (CR) or need to be planned and coordinated only during customer business hours. |
| 11 | SM_1.2.11_AE | Create service plan for reoccurring and proactive CAS tasks / Create and maintain service plan for reoccurring and proactive HEC services | = | HEC Standard Services | |
| 12 | SM_1.2.12_AE | Create and maintain release plan for HEC landscape | = | HEC Standard Services | |
| 13 | | HEC Services to support industry regulations | = | | 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 HEC contract; examples for industry standards that may be addressed with these services are GxP or HIPAA |
| 14 | | Qualifications Services | = | | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|----|--------------|-------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | SM_1.6.02 | Qualification deliverables (project and lifecycle documentation) | <> | HEC Optional Services | |
| 16 | SM_1.6.03 | Personnel qualification and training as mandatory requirement for administrator access to regulated industries systems | <> | HEC Optional Services | |
| 17 | SM_1.6.04 | Onboarding / system setup with additional Installation Qualification | <> | HEC Optional Services | |
| 18 | | Process Services | = | | |
| 19 | SM_1.6.06 | Documents and records management for regulated industries | <> | HEC Optional Services | |
| 20 | SM_1.6.07 | Change & Configuration Management for regulated industries | <> | HEC Optional Services | |
| 21 | SM_1.6.08 | Problem Management for regulated industries | <> | HEC Optional Services | |
| 22 | SM_1.6.09 | Audits and Periodic Review | <> | HEC Optional Services | |
| 23 | SM_1.6.10 | System Decommissioning for regulated industries | <> | HEC Optional Services | |
| 24 | | B - Infrastructure | = | Section B - Infrastructure describes the infrastructure services provided for components used as part of HEC 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). | |
| 25 | | Data Center Management | = | | |
| 26 | INFRA_1.1.01 | Data Center Management | = | HEC Standard Services | HEC is operated either in DC facilities owned by the respective HEC service provider, in rented co-location facilities, public cloud, or on hyperscaler infrastructure platforms. |
| 27 | | Network Management | = | | |
| 28 | INFRA_1.2.01 | Manage remote connection between the hosted system landscape and SAPs support infrastructure | = | HEC Standard Services | Service initiated after formal transition to HEC service provider. |
| 29 | INFRA_1.2.03 | Separation of systems in HEC customer landscape into more than one network segment | <> | HEC Additional Service | May not be available with Hyperscale deployment. |
| 30 | INFRA_1.2.04 | Modification to existing customer connectivity (VPN, MPLS, Cloud Peering etc.) | = | HEC Standard Services | One (1) ticket per each feature change is required (after initial connectivity is established). |
| 31 | INFRA_1.2.05 | Add additional VPN or MPLS or Cloud Peering | = | HEC Optional Services | Requires new VPN questionnaire to be completed. |
| 32 | INFRA_1.2.06 | IP address migration - Change IP addressing of existing network segment to new IP addressing | = | HEC Additional Service | Used for cases where the original IP range of a network segment (including delivered systems) needs to be changed. |
| 33 | INFRA_1.2.07 | Enable DNS integration of an on-premise customer domains into customer DNS servers in HEC to resolve on-premise host names | = | HEC Standard Services | Supported through DNS forwarding on the DNS server. This task does not add /etc/hosts file entries on individual HEC servers. |
| 34 | INFRA_1.2.08 | Migrate SAP domain (hec.sap.biz) to customer domain or customer domain migration | = | HEC Additional Service | Used in case customer wants to change from HEC internal domain to customer domain or want to migrate existing domain to new domain due to organizational change. |
| 35 | | Hardware Operations | = | Applies to equipment managed by HEC service provider | |
| 36 | INFRA_1.4.03 | Plan and conduct HEC infrastructure maintenance | = | HEC Standard Services | |
| 37 | INFRA_1.4.05 | Monitor critical operations parameters of HEC computing environment | = | HEC Standard Services | |
| 38 | INFRA_1.4.06 | Monitor disk capacity | = | HEC Standard Services | Subject to additional fees for additional capacity. |
| 39 | INFRA_1.4.07 | Monitor server capacity | = | HEC Standard Services | Subject to additional fees for additional capacity. |
| 40 | INFRA_1.4.08 | Monitor network utilization | = | HEC Standard Services | |
| 41 | INFRA_1.4.09 | Infrastructure/hardware/system requests; Process commercial change requests as required for hardware upgrades, additions etc. | = | HEC 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). |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|----|--------------|-------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 42 | INFRA_1.4.11 | Scale compute capacity (memory & CPU) | = | HEC Optional Services | |
| 43 | | Storage Management | = | | |
| 44 | INFRA_1.5.01 | Manage data files, file systems and disks per HEC standards and practices | = | HEC Standard Services | |
| 45 | INFRA_1.5.02 | Scale storage capacity | = | HEC Optional Services | |
| 46 | INFRA_1.5.03 | Enable SnapLock/WORM/Immutability capability for archiving use cases | <> | HEC Optional Services | Available only for certain storage types on request; activated per volume. Not available on Hyperscaler. |
| 47 | | Operating System | = | | |
| 48 | INFRA_1.6.01 | Create and maintain OS users and groups | = | HEC Standard Services | HEC service provider access only, no privileged access to operating system by customer. |
| 49 | INFRA_1.6.04 | Inform customer regarding security incidents | = | HEC Standard Services | |
| 50 | INFRA_1.6.05 | Configure OS parameters | = | HEC Standard Services | |
| 51 | INFRA_1.6.06 | Troubleshoot operating system problems, monitor system log and file systems | = | HEC Standard Services | |
| 52 | INFRA_1.6.07 | Work with vendor to resolve operating system issues | = | HEC Standard Services | |
| 53 | INFRA_1.6.08 | Monitoring of swap and page areas | = | HEC Standard Services | |
| 54 | INFRA_1.6.09 | Monitoring of memory load | = | HEC Standard Services | |
| 55 | INFRA_1.6.12 | Software Lifecycle Management of operating system | = | HEC Standard Services | |
| 56 | | System Startup/Shutdown | = | | |
| 57 | INFRA_1.7.01 | Perform scheduled startup/shutdown of computing environment | = | HEC Standard Services | |
| 58 | INFRA_1.7.03 | Restart computing environment after failure | = | HEC Standard Services | |
| 59 | | Backup/Restore | = | | |
| 60 | INFRA_1.8.01 | Perform standard file system and database backups | = | HEC Standard Services | Per HEC standards, or according to specific terms of the HEC Agreement. |
| 61 | INFRA_1.8.10 | Perform exceptional ad-hoc backup upon request | = | HEC Additional Service | Lead time for backup to be aligned in advance. |
| 62 | INFRA_1.8.09 | Provide non-standard backup services (e.g. extended retention period for long-term backups) | <> | HEC Optional Services | Offered options are described in separate service descriptions and are subject to change; not every theoretically possible combination of backup frequency and retention period is offered. |
| 63 | INFRA_1.8.11 | Monitor backup processes | = | HEC Standard Services | |
| 64 | INFRA_1.8.07 | Test backup/restore procedures periodically | = | HEC Standard Services | Verify procedures used in HEC and operational readiness; testing is not performed for each individual system but for representative scenarios |
| 65 | INFRA_1.8.03 | Perform data restore and recovery (file system, database) as required after system failures | = | HEC Standard Services | Extra charges apply for restores if caused by customer error. |
| 66 | INFRA_1.8.02 | Perform data restore and recovery (file system, database) on customer request (other reasons than as a response to system failures) | = | HEC Standard Services | |
| 67 | INFRA_1.8.06 | Validate logical integrity and consistency of restored information | = | HEC Excluded Tasks | |
| 68 | | Infrastructure integration | = | | |
| 69 | INFRA_1.9.02 | Integration of customer Active Directory | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 70 | INFRA_1.9.04 | Provide access to systems/resources within customer infrastructure | = | HEC Excluded Tasks | If required to fulfil agreed contractual obligations. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|----|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 71 | | File transfer capabilities: CIFS shares | = | | |
| 72 | INFRA_1.10.01 | Provide CIFS (aka Samba) share on LINUX | = | HEC Standard Services | Within contractually agreed infrastructure capacity |
| 73 | INFRA_1.10.03 | User and access management | = | HEC Standard Services | Once/initially when share is created. |
| 74 | INFRA_1.10.04 | Creation and maintenance of folder structure on shares | = | HEC Standard Services | |
| 75 | INFRA_1.10.05 | Ensure up-to-date anti-virus protection on end user equipment connecting to the provided shares | = | HEC Excluded Tasks | |
| 76 | INFRA_1.10.06 | Implement virus protection on server | = | HEC Standard Services | |
| 77 | INFRA_1.10.07 | Backup of data uploaded to shares to ensure data integrity | = | HEC 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. |
| 78 | | Managed SFTP Server | = | To be installed on existing application server in HEC landscape | |
| 79 | INFRA_1.11.01 | Configuration of sftp daemon | = | HEC Standard Services | Only available on Linux. |
| 80 | INFRA_1.11.02_AE | Create and maintain sftp user accounts and groups | = | HEC Standard Services | Up to 10 users. |
| 81 | INFRA_1.11.03 | Manage file systems | = | HEC Standard Services | Within contractually agreed infrastructure capacity |
| 82 | INFRA_1.11.04 | Provide user list | = | HEC Excluded Tasks | |
| 83 | INFRA_1.11.05 | Creation and deletion of files | = | HEC Excluded Tasks | |
| 84 | | Management of Wide Area Network | = | | |
| 85 | INFRA_1.12.01 | Provide network infrastructure at customer data center/site | = | HEC Excluded Tasks | |
| 86 | INFRA_1.12.02 | Provide network switching and ports at SAP/Partner data center to customer to connect telco equipment. | = | HEC 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. |
| 87 | INFRA_1.12.03 | Determine appropriate size and purchase network connection between customer and HEC sites; manage telecommunication provider/ISP | = | HEC Excluded Tasks | |
| 88 | INFRA_1.12.04 | SAP Cloud Peering: Establish a virtual connection to an SAP datacenter via a customer's interconnection provider to access multiple clouds through one connection. | <> | HEC Optional Services | Can only be used if SAP is connected to same interconnection provider. Monthly subscription fee via Change request based on bandwidth. Not available in all regions or for all interconnection partners. Connection of customer on-premise networks to interconnection hub is performed by the customer with their selected interconnect provider. |
| 89 | | C1 - Database Management SAP HANA | = | | |
| 90 | | SAP HANA (general database operations) | = | The HEC services, specified by this version of the HEC ROLES and Responsibilities, include as a baseline the features and | |
| 91 | HANA_1.1.31 | Provide recommendations on database release management | = | HEC Standard Services | HEC will provide guidance on recommended database releases based on operational experience in HEC and information given by SAP Product Development. |
| 92 | HANA_1.1.01 | Plan and perform file system extensions for e.g. backup activities | = | HEC Standard Services | Additional infrastructure consumption requires a CR. |
| 93 | HANA_1.1.02 | Monitor database resource consumption to detect issues in technical operations | = | HEC Standard Services | Task output feeds into capacity management; recommendations for optimization may also be provided via SAP Enterprise Support services. |
| 94 | HANA_1.1.03 | Monitor table growth to proactively prevent operational issues and ensure that the service stays within the contractual sizing boundaries | = | HEC Standard Services | Recommendations for limitation of data growth could may also be provided via SAP Enterprise Support services. |
| 95 | HANA_1.1.25 | Design table partitioning strategy/architecture | = | HEC Excluded Tasks | Customer may engage SAP Consulting for designing table partitioning strategy and architecture. |
| 96 | HANA_1.1.04 | Partition tables (technical execution) | = | HEC Standard Services | If required as a consequence of extensive table growth; one (1) execution per year included; any further requests will be charged separately. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 97 | HANA_1.1.35 | Partition tables (additional) | = | HEC Additional Service | If required as a consequence of extensive table growth; one (1) execution per year included; any further requests will be charged as an additional service. |
| 98 | HANA_1.1.36 | Database table redistribution based on the table placement rules (Technical Execution) | = | HEC Standard Services | For requirements involving application dependency (e.g. Moving tables and table partitions manually from one host to another). |
| 99 | HANA_1.1.05 | Perform rowstore / column store migration: technical execution only | = | HEC Standard Services | Per customer request. Executing party to be mutually agreed between HEC and customer; migration of larger SAP tables to be done by HEC; customer should perform task on own tables if desired; additional downtime required per customer approval. |
| 100 | HANA_1.1.37 | Database Defragmentation (Data Volume Reclamation) | = | HEC Standard Services | |
| 101 | HANA_1.1.38 | Database Row Store Fragmentation | = | HEC Standard Services | |
| 102 | HANA_1.1.06 | Monitor database for technical issues; analyze and resolve technical database failures | = | HEC Standard Services | |
| 103 | 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 | = | HEC Standard Services | |
| 104 | HANA_1.1.08 | Maintain technical configuration parameters for SAP HANA and SAP HANA XS based on SAP and HEC standards and recommendations | = | HEC Standard Services | |
| 105 | HANA_1.1.09 | Start/stop database | = | HEC Standard Services | |
| 106 | HANA_1.1.10 | Add/remove SAP HANA node to adjust SAP HANA capacity | = | HEC Optional Services | For HANA scale-out configurations only |
| 107 | HANA_1.1.28 | Creation of additional schema for existing SAP HANA datamart | = | HEC Standard Services | |
| 108 | HANA_1.1.29 | Change of SAP HANA database ID and instance number | = | HEC Standard Services | |
| 109 | HANA_1.1.26 | Change SAP HANA database architecture (single node to multi node or vice versa) | = | HEC Optional Services | |
| 110 | HANA_1.1.11 | Management of standby databases (HANA System Replication) for high availability | <> | HEC 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 setups. Failover tests are not performed on a regular basis per system. |
| 111 | HANA_1.1.34 | Test standby databases (HANA System Replication) for high availability at customer request | <> | HEC Additional Service | |
| 112 | HANA_1.1.12 | Update SAP HANA database software and update of DB client | = | HEC Standard Services | Additional downtime for maintenance required; this task does not include the usage of advanced update approaches such as ZDO/Downtime Minimization etc. The term "update" denotes the change to a new minor release of the hosted SAP software, typically focused on bug fixes and small enhancements. |
| 113 | HANA_1.1.33 | SAP HANA version upgrade and update of DB Client | = | HEC 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. |
| 114 | HANA_1.1.27 | Implement updates to the managed SAP HANA database using advanced tools and methods which are part of the HEC Maintenance Downtime Minimization Service to minimize required downtime | = | HEC Additional Service | Available from SAP HANA SPS 12 onwards. |
| 115 | HANA_1.1.22 | SAP HANA Transports Management Setup | = | HEC Standard Services | |
| 116 | HANA_1.1.14 | Implement / maintain additional SAP tools (e.g. SAP HANA Analytics Foundation Browser) | = | HEC Standard Services | Depending on customer requirements; only for tools in the HANA context delivered by SAP, 3rd party tools not covered. |
| 117 | HANA_1.1.15 | Identify, analyze and optimize expensive SQL-statements to improve application performance | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|-------------|-----------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 118 | HANA_1.1.16 | System troubleshooting, e.g. blocked transactions, to overcome issues and bring SAP HANA back to normal state of operations | = | HEC Standard Services | |
| 119 | HANA_1.1.17 | Create/modify users for HANA modelling in the SAP HANA Studio | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 120 | HANA_1.1.18 | User, roles, and permissions management for non-technical users | = | Cloud Application Services ("CAS"). Can be performed by customer. | Customer has ownership and responsibility for SAP HANA role CUST_USER_ROLE_ADMIN. |
| 121 | HANA_1.1.19 | User, roles and permissions management for technical and administration users | = | HEC Standard Services | Technical users: e.g. users delivered and used by SAP HANA. This service is only for internal Users created by HEC e.g. SAPSID / SAPABAP1 / SAPHANADB. |
| 122 | HANA_1.1.20 | Perform database backups (regular full backups and log backups) | = | HEC Standard Services | Per HEC backup policy. |
| 123 | HANA_1.1.21 | Restore and recover SAP HANA after technical issues | = | HEC Standard Services | Restores on customer request provided at additional costs. |
| 124 | HANA_1.1.30 | dbcc (database consistency check) | = | HEC Standard Services | |
| 125 | HANA_1.1.32 | Export/Import of database schema | = | HEC Excluded Tasks | |
| 126 | HANA_1.1.24 | Implement SAP HANA database encryption on SAP HANA database already installed in HEC | <> | HEC Standard Services | Downtime required for re-installation of database; potential additional storage consumption is subject to a change request (CR). |
| 127 | HANA_1.1.23 | Setup and operate encrypted HANA database | <> | HEC Optional Services | |
| 128 | HANA_1.1.39 | Implement SAP HANA log encryption on SAP HANA database already installed in HEC | = | HEC Standard Services | |
| 129 | HANA_1.1.40 | Configure Secure Communication on SAP HANA System Replication (HSR) | = | HEC 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. |
| 130 | | SAP HANA XS | = | | |
| 131 | HANA_1.2.01 | Maintain technical configuration parameters for SAP HANA XS based on SAP and HEC standards and recommendations | = | HEC Standard Services | |
| 132 | HANA_1.2.02 | Maintain Application Runtime Configurations | = | HEC Standard Services | |
| 133 | HANA_1.2.03 | Manage Trust Relationships | = | HEC Standard Services | |
| 134 | HANA_1.2.04 | Maintain SAML Providers | = | HEC Standard Services | |
| 135 | HANA_1.2.05 | Maintain SMTP Server Configurations | = | HEC Standard Services | |
| 136 | HANA_1.2.06 | Maintain HTTP Access to SAP HANA | = | HEC Standard Services | |
| 137 | HANA_1.2.08 | Maintain User Self Service Tools | = | HEC Standard Services | |
| 138 | HANA_1.2.09 | Schedule XS Jobs | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 139 | HANA_1.2.11 | Maintain HTTP Traces for SAP HANA XS Applications | = | HEC Standard Services | |
| 140 | | SAP HANA XSA | = | | 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). |
| 141 | HANA_1.9.01 | Installation along with HANA Server | = | HEC Standard Services | |
| 142 | HANA_1.9.02 | Install XSA Components as an add-on for already installed HANA Server | = | HEC Standard Services | |
| 143 | HANA_1.9.04 | Setup/Configuration of XSA for HANA Development at customer side | = | HEC Excluded Tasks | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------------|-------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 144 | HANA_1.9.05 | Configuration of XS-CLI Tool for HANA Development | = | HEC Excluded Tasks | |
| 145 | HANA_1.9.06 | User management for HANA Development | = | HEC Excluded Tasks | |
| 146 | HANA_1.9.07 | Monitoring of XSA services and its applications | = | HEC Optional Services | Super set will be included in monitoring if selected |
| 147 | HANA_1.9.08 | Setup Logical database (Register Tenant Database) | = | HEC Optional Services | |
| 148 | HANA_1.9.09 | Set up initial admin users for XSA | = | HEC Optional Services | |
| 149 | HANA_1.9.10 | Backup and restore of XSA specific files | = | HEC Optional Services | Requires Disaster Recovery service package. |
| 150 | HANA_1.9.11 | Web Dispatcher configuration for the applications installed by HEC and built by customers | = | HEC Optional Services | |
| 151 | HANA_1.9.13 | Support customer built applications | = | HEC Excluded Tasks | |
| 152 | HANA_1.9.14 | Availability monitoring of customer built applications | = | HEC Excluded Tasks | |
| 153 | HANA_1.9.15 | Backup of custom applications if using file system storage | = | HEC Standard Services | |
| 154 | HANA_1.9.16 | Restore of customer built applications using file system storage provided the backup has been enabled prior | = | HEC Standard Services | |
| 155 | HANA_1.9.17 | Post-restore task checking and connection of custom applications | = | HEC Excluded Tasks | |
| 156 | | SAP HANA: Smart Data Integration (Formerly Enterprise Information Management - EIM) | = | Extended feature beyond SAP HANA 1.0 SPS08 baseline; not included in standard HEC service for SAP HANA 1.0 | |
| 157 | | Setup - Technical Set Up Only - Does Not Include Application Set Up | = | | |
| 158 | TO_HANA_SDI_1.1.01 | Enable Data Provisioning Server | = | HEC Optional 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 |
| 159 | TO_HANA_SDI_1.1.02 | Install, configure, and register Data Provisioning Agent | = | HEC Optional Services | One (1) agent is included. Additional Data Provisioning Agents can be charged separately. |
| 160 | TO_HANA_SDI_1.1.03 | Install, configure, and register additional Data Provisioning Agents | = | HEC Standard Services | |
| 161 | TO_HANA_SDI_1.1.04 | Setup Smart Data Quality (SDQ) | = | HEC 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 setup for the customer so that the customer may upload the address directories on their own. |
| 162 | TO_HANA_SDI_1.1.05 | Setup Agile Data Preparation (ADP) | = | HEC Standard Services | ADP requires SDQ, ESS and HRF be deployed and setup with related users and authorizations |
| 163 | TO_HANA_SDI_1.1.06 | Administration of Agile Data Preparation (ADP) | = | Cloud Application Services ("CAS"). Can be performed by customer. | Setting Export Options, worksheet expiration, password features, warehouse workspace, and size and policy for queues. |
| 164 | TO_HANA_SDI_1.1.07 | Set up replications, federation and transformations | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 165 | TO_HANA_SDI_1.1.08 | FlowGraph jobs backup | = | HEC Excluded Tasks | |
| 166 | TO_HANA_SDI_1.1.09 | Replication task backup | = | HEC Excluded Tasks | |
| 167 | TO_HANA_SDI_1.1.10 | DP Agent - High Availability setup | = | HEC Optional Services | DP Agent can be setup in High Availability setup by provisioning shadow instances on additional nodes; included only if explicitly mentioned in the contract. |
| 168 | TO_HANA_SDI_1.1.11 | Deploy standard adapters with SAP HANA | = | Cloud Application Services ("CAS"). Can be performed by customer. | See the SDI guide on the SAP Help Portal for a list of standard and custom adapters |
| 169 | TO_HANA_SDI_1.1.12 | Deploy custom adapters with SAP HANA | = | HEC Optional Services | See the SDI guide on the SAP Help Portal for a list of standard and custom adapters. |
| 170 | TO_HANA_SDI_1.1.13 | Monitor Data Provisioning tasks and remote subscriptions | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 171 | TO_HANA_SDI_1.1.14 | Process remote subscription exceptions | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 172 | | SAP HANA: Dynamic Tiering (DT) | = | Extended feature beyond SAP HANA 1.0 SPS08 baseline; not included in standard HEC service for SAP HANA 1.0 | |
| 173 | | Operational Setup | = | | |
| 174 | TO_HANA_DT_1.1.01 | HANA-DT operational setup: Install and technically configure HANA DT, add DT Host, Import DT delivery units, maintain technical authorizations | = | HEC Optional Services | |
| 175 | | Optional Services | = | | |
| 176 | TO_HANA_DT_1.2.01 | Manage extended storage DB spaces (add extended storage to each ES host) | = | HEC Standard Services | Increased storage consumption is subject to a Change Request (CR) and additional cost. |
| 177 | TO_HANA_DT_1.2.02 | Manage extended storage tables: Create, move or drop ES Tables on each ES storage | = | HEC Standard Services | |
| 178 | | SAP HANA: Streaming Analytics Option (Formerly Smart Data Streaming SDS) | = | Extended feature beyond SAP HANA 1.0 SPS08 baseline; not included in standard HEC service for SAP HANA 1.0 | |
| 179 | | Operational Setup | = | | |
| 180 | TO_HANA_SA_1.0.01 | Install Streaming Analytics option package | = | HEC Optional Services | SAO package is installed on the SAP HANA DB node/MDC Tenant. |
| 181 | TO_HANA_SA_1.0.02 | Add Streaming Analytics option host | = | HEC Optional Services | A maximum of Two (2) SAO host can be provided. Additional SAO hosts can be charged separately. |
| 182 | TO_HANA_SA_1.0.03 | Add additional Streaming Analytics option host | = | HEC Standard Services | A maximum of Two (2) SAO host can be provided. Additional SAO hosts can be charged separately. |
| 183 | TO_HANA_SA_1.0.04 | Configure data source on Streaming Analytics option host | = | Cloud Application Services ("CAS"). Can be performed by customer. | Configure odbc.ini for SAP HANA connection from each of the SAO hosts. |
| 184 | TO_HANA_SA_1.0.05 | Setup streaming authorization | = | HEC Optional Services | Activate smart data streaming roles, privileges and object access for monitoring and operations. |
| 185 | TO_HANA_SA_1.0.06 | Activate SAP HANA Cockpit | = | HEC Optional Services | Execute tasks for SAP HANA Cockpit activation for SAO operations and monitoring. |
| 186 | TO_HANA_SA_1.0.07 | Configure Streaming Cluster - High Availability setup | = | HEC Optional Services | Configure for high availability by adding multiple nodes. Additional Infrastructure required. |
| 187 | TO_HANA_SA_1.0.08 | Provision of Disaster Recovery (Streaming Analytics option nodes) | = | HEC Optional Services | Provisioning of identical number of nodes at a secondary site to mirror primary site using HEC Provisioning Tool |
| 188 | TO_HANA_SA_1.0.09 | Streaming Lite setup | = | HEC 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 |
| 189 | TO_HANA_SA_1.0.10 | Create and deploy Streaming Analytics option streaming projects | = | Cloud Application Services ("CAS"). Can be performed by customer. | Using SAP HANA Studio, create and deploy project for data streaming to SAP HANA and other external sources. |
| 190 | TO_HANA_SA_1.0.11 | Monitor Streaming Analytics option objects and projects | = | Cloud Application Services ("CAS"). Can be performed by customer. | Monitoring SAO objects and projects using SAP HANA/ESP Cockpits |
| 191 | | SAP HANA: Multiple Database Containers (MDC) | = | Extended feature beyond SAP HANA 1.0 SPS08 baseline; not included in standard HEC service for SAP HANA 1.0 | |
| 192 | | Operational Setup | = | | |
| 193 | TO_HANA_MDC_1.1.01 | Install HANA MDC (HANA server, Client, AFL, Runtime Libraries and Studio) | = | HEC Standard Services | MDC is default in SAP HANA 2.0. |
| 194 | TO_HANA_MDC_1.1.06 | Creation of technical users | = | HEC Standard Services | MDC is default in SAP HANA 2.0. Customer responsible for user management using CUST_USER_ROLE_ADMIN |
| 195 | TO_HANA_MDC_1.1.02 | Convert an SAP HANA System to support Multitenant Database Containers | <> | not offered | Only performed as part of an SAP HANA2.0 upgrade |
| 196 | TO_HANA_MDC_1.1.07 | Creation of additional tenants for datamart scenarios on existing infrastructure | = | HEC Optional Services | For use on existing infrastructure. A change request (CR) is required for backup retention requirements and the setup of new continuous monitoring. |
| 197 | TO_HANA_MDC_1.1.08 | Creation of additional tenants for datamart scenarios on new infrastructure | = | HEC Optional Services | Additional infrastructure consumption requires a change request (CR). |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 198 | TO_HANA_MDC_1.1.04 | Install additional services for tenant DB containers | = | HEC 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. |
| 199 | TO_HANA_MDC_1.1.05 | Scale out of tenant database | = | HEC Standard Services | SAP BW systems only. |
| 200 | TO_HANA_MDC_1.2.17_AE | Tenant Copy/Move Preparation, Checks, Certificates, Pre-Steps, Move/Copy via replication, post processing steps | = | HEC Standard Services | Move will drop the source database after the task is complete. Copy will keep the source after the task is complete. |
| 201 | TO_HANA_MDC_1.2.01 | Network: Reserve additional ports to one instance to adjust tenant overhead per instance | = | HEC Standard Services | |
| 202 | TO_HANA_MDC_1.2.02 | Cross-Database authorization in MDC databases to facilitate cross-DB queries | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 203 | TO_HANA_MDC_1.2.03 | Auditing: Creating and enabling audit policies for systemdb and each tenant db | = | HEC Standard Services | |
| 204 | TO_HANA_MDC_1.2.04 | Data storage: DB-specific encryption keys | = | HEC Standard Services | SSFS Master Key Change. |
| 205 | TO_HANA_MDC_1.2.08 | Data storage: DB-specific encryption keys (SSFS Master Key) Change | = | HEC Standard Services | |
| 206 | TO_HANA_MDC_1.2.06 | Backup of individual tenants | = | HEC Additional Service | As per HEC standard, backups are performed for the entire database. However, a tenant-individual backup - as a file based dump - is possible on individual request. |
| 207 | TO_HANA_MDC_1.2.07 | Restore of individual tenant | = | HEC Additional Service | |
| 208 | TO_HANA_MDC_1.2.10 | Authorization: Management of system privileges and tenant DB privileges | = | HEC Standard Services | |
| 209 | | Active-Active Read Enabled Setup | = | Extended feature beyond SAP HANA 1.0 SPS08 baseline; not included in standard HEC service for SAP HANA 1.0 | |
| 210 | TO_HANA_AAR_1.1.01 | Install primary and secondary SAP HANA system | = | HEC Optional Services | Import delivery units, setup users and roles. |
| 211 | TO_HANA_AAR_1.1.03 | Establish log replay between both SAP HANA instances | = | HEC Optional Services | Import delivery units, setup users and roles. |
| 212 | TO_HANA_AAR_1.1.04 | Establish monitoring for secondary system | = | HEC Optional Services | |
| 213 | | Remote Data Sync (RDS) | = | Extended feature beyond SAP HANA 1.0 SPS08 baseline; not included in standard HEC service for SAP HANA 1.0 | |
| 214 | | Setup and Configuration | = | | |
| 215 | TO_HANA_RDS_1.1.01 | Install Remote Data Sync component on SAP HANA | = | HEC 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. |
| 216 | TO_HANA_RDS_1.1.02 | Add Remote Data Sync Host | = | HEC Optional Services | |
| 217 | TO_HANA_RDS_1.1.03 | Activate RDS roles, privileges and object access for monitoring and operations | = | HEC Optional Services | |
| 218 | TO_HANA_RDS_1.1.04 | Import of RDS delivery units | = | HEC Optional Services | This task is required only in MDC setups. |
| 219 | TO_HANA_RDS_1.1.05 | Setup and configure RDS nodes for each tenant DB including service initialization, cockpit access, delivery units and verification | = | HEC Optional Services | This task is required only in MDC setups. |
| 220 | TO_HANA_RDS_1.1.06 | RDS cockpit - Setup and Configuration | = | HEC Optional Services | Execute tasks for HANA Cockpit activation for RDS operations and monitoring. |
| 221 | | High Availability Setup | = | | |
| 222 | TO_HANA_RDS_1.2.01 | Setup of additional hosts for high availability | = | HEC 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 load balancer setup, check R&R Section "LoadBalancer". |
| 223 | TO_HANA_RDS_1.2.02 | High availability configuration | = | HEC Optional Services | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------------|----------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 224 | TO_HANA_RDS_1.2.03 | Setup and configure LoadBalancer for High Availability support | = | HEC Optional Services | |
| 225 | | Other Services | = | | |
| 226 | TO_HANA_RDS_1.3.01 | Setup and configure synchronization scripts | = | HEC Excluded Tasks | Configure synchronization script for upload and download of data between remote and consolidate databases. |
| 227 | TO_HANA_RDS_1.3.02 | Monitor synchronization requests, process and status | = | HEC Excluded Tasks | Monitoring sync status, request and availability using RDS cockpits. |
| 228 | | Capture and Replay | = | Extended feature beyond SAP HANA 1.0 SPS08 baseline; not included in standard HEC service for SAP HANA 1.0 | |
| 229 | TO_HANA_CR_1.1.01 | Prepare capture in source system | = | HEC Optional Services | Import Delivery units, setup users and roles. |
| 230 | TO_HANA_CR_1.1.02 | Start capture | = | Cloud Application Services ("CAS"). Can be performed by customer. | Customer must ensure sufficient capacity to store capture of workload; capacity extension requires change request (CR). |
| 231 | TO_HANA_CR_1.1.03 | Setup replay in target system | = | HEC Optional Services | Import Delivery units, setup users and roles. |
| 232 | TO_HANA_CR_1.1.04 | Configure replayer service | = | HEC Optional Services | Configure replayer service. |
| 233 | TO_HANA_CR_1.1.05 | Preprocess and replay in target system | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 234 | | SAP HANA: Accelerator for SAP ASE (AFA) | = | | |
| 235 | | Operational Setup | = | | |
| 236 | TO_AFA_1.1.01 | Installing Accelerator for SAP ASE Package | = | HEC Standard Services | HANA - AFA package is installed on the SAP HANA DB node. |
| 237 | TO_AFA_1.1.02 | Adding Accelerator for ASE Host | = | HEC Standard Services | Adding Accelerator for ASE host. For multi-tenant setups, AFA nodes are added exclusively to each tenant DB. |
| 238 | TO_AFA_1.1.03 | Install and configure SAP Replication Server | = | HEC 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 HEC landscape, replication server can be installed as managed server. |
| 239 | TO_AFA_1.1.04 | Authorization - Setup | = | HEC Standard Services | Activate accelerator for ASE roles, privileges and object access for monitoring and operations. Provision HEC specific user and roles. |
| 240 | TO_AFA_1.1.05 | Enable Pushdown Optimization | = | HEC Standard Services | AFA pushdown optimization is enabled on AFA nodes |
| 241 | TO_AFA_1.1.06 | Import Delivery Units | = | HEC Standard Services | Import of AFA Delivery units in HANA multi-container scenarios. This task is required only in MDC setup. |
| 242 | TO_AFA_1.1.07 | Multitenant Setup | = | HEC Standard Services | Configure and setup AFA nodes for each tenant DB including, service initialization, cockpit access, delivery units and verification. |
| 243 | TO_AFA_1.1.08 | Configure HTTP Access for Multi Database Containers (MDC) | = | HEC 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 setup. |
| 244 | TO_AFA_1.1.09 | High availability setup and configuration | = | HEC Optional Services | High Availability setup and configuration involving single or multi-tenant DB setups including ETS group setup; only if standby nodes are part of the contractual landscape design. |
| 245 | | Other Services | = | | |
| 246 | TO_AFA_1.2.01 | Pushdown Analysis Tool Setup | = | Cloud Application Services ("CAS"). Can be performed by customer. | Simulation tool to evaluate pushdown optimization. This is carried out prior to AFA Deployment. |
| 247 | TO_AFA_1.2.02 | Data Replication for Accelerated Reporting | = | HEC Excluded Tasks | Setup ASE OLTP data replication to HANA DB. Identify and setup DB objects to be replicated. |
| 248 | TO_AFA_1.2.03 | Monitor Accelerator for ASE Pushdown Statements | = | HEC Excluded Tasks | Monitoring Accelerator for ASE objects including pushdown statements using HANA Cockpits. |
| 249 | | SAP HANA Cockpit 2.0 | = | | |
| 250 | | Installation and Configuration | = | | |
| 251 | TO_HANA_CP_1.1.01 | Install cockpit on new SAP HANA database | = | HEC Optional Services | Import delivery units, setup users and roles. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|-------------------|----------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 252 | TO_HANA_CP_1.1.02 | Install cockpit on new SAP HANA database on new tenant | = | HEC Optional Services | Import delivery units, setup users and roles. |
| 253 | TO_HANA_CP_1.1.03 | Setup/Configure for SAP HANA system on customer side | = | HEC Excluded Tasks | Customer can perform this task with user provided by HEC. |
| 254 | TO_HANA_CP_1.1.04 | Monitoring | = | HEC Optional Services | |
| 255 | TO_HANA_CP_1.1.05 | User management | = | HEC Excluded Tasks | Customer must maintain users. |
| 256 | | C2 - Database Management | = | Excluding SAP HANA and Sybase IQ which are described in the respective sections | |
| 257 | | Database operations | = | | |
| 258 | DB_1.1.17 | Provide recommendations on database release management | = | HEC Standard Services | HEC will provide guidance on recommended database releases based on operational experience in HEC and information given by SAP Product Development. |
| 259 | DB_1.1.19 | Monitor database resource consumption (memory, CPU, storage) to detect issues in technical operations | = | HEC Standard Services | Task output feeds into capacity management; recommendations for optimization may also be provided via SAP Enterprise Support services. |
| 260 | DB_1.1.02 | Perform database extensions to increase database capacity | = | HEC Standard Services | Increased consumption will be charged according to contractual Agreement. |
| 261 | DB_1.1.03 | Monitor table extension parameters to avoid issues | = | HEC Standard Services | |
| 262 | DB_1.1.20 | Monitor database for technical issues; analyze and resolve technical database failures | = | HEC Standard Services | |
| 263 | DB_1.1.24 | System troubleshooting, e.g. blocked transactions to overcome issues and bring database back to normal state of operations | = | HEC Standard Services | |
| 264 | DB_1.1.05 | Schedule periodic statistical database collectors to generate statistical performance data | = | HEC Standard Services | |
| 265 | DB_1.1.06 | Perform reorganization to remove database fragmentation | = | HEC Standard Services | |
| 266 | DB_1.1.07 | Maintain/change database parameters | = | HEC Standard Services | Based on vendor recommendations and HEC standards. |
| 267 | DB_1.1.21 | Start/stop database | = | HEC Standard Services | |
| 268 | DB_1.1.10 | Create and check optimizer statistics to maintain database performance | = | HEC Standard Services | |
| 269 | DB_1.1.11 | Perform upgrades of database software | = | HEC Standard Services | |
| 270 | DB_1.1.12 | Apply database patches | = | HEC Standard Services | |
| 271 | DB_1.1.13 | Perform database backups (regular database and log backups) | = | HEC Standard Services | Per HEC backup policy. |
| 272 | DB_1.1.14 | Restore and recover database after technical issues | = | HEC Standard Services | For technical issues. Restores on customer request provided at additional costs. |
| 273 | DB_1.1.22 | Perform dbcc (database consistency check) | = | HEC Standard Services | |
| 274 | DB_1.1.23 | Export/Import of database schema | = | HEC Standard Services | |
| 275 | DB_1.1.18 | Implement SAP ASE database encryption on SAP ASE database already installed in HEC. | = | HEC Standard Services | No downtime required. |
| 276 | DB_1.1.16 | Assist customer in optimizing SQL statements (indexes, selects etc.) for application improvements | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 277 | DB_1.1.25 | Create indexes for application tables | = | HEC Standard Services | |
| 278 | DB_1.126 | Shrink database | = | HEC Excluded Tasks | |
| 279 | | D - Core Technical Operations | = | | |
| 280 | | System Installation | = | | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 281 | BASIC_1.8.01 | Installation of HEC solution landscape as specified in the HEC contract, based on SAP and HEC standards and HEC best-practices | = | HEC 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 HEC, the respective effort and costs are covered by the general setup and there will be no additional charge for a "system copy". Source systems not residing inside HEC is not addressed by this comment and is covered by the separately contracted HEC onboarding and migration service. |
| 282 | BASIC_1.8.25 | System Rebuild | = | HEC 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. |
| 283 | BASIC_1.8.02 | Technical configuration (installation post-processing) of installed systems (e.g. scheduling of standard batch jobs, backup etc.) | = | HEC Standard Services | Scope is determined by this Roles & Responsibilities document. |
| 284 | BASIC_1.8.15 | Basic Technical Configuration of SAP BW and SAP BW/4HANA Systems | = | HEC Optional Services | For ABAP Greenfield setups only |
| 285 | BASIC_1.8.23 | Implement a preconfigured system from SAP Model Company solution in an HEC skeleton system | = | HEC Standard Services | Optional part for installation of systems of customer's HEC solution landscape. Customer needs to have an applicable SAP Professional Services contract for the relevant SAP Model Company (MC). |
| 286 | BASIC_1.5.01 | Application customizing and configuration, application maintenance, application support and application troubleshooting | = | HEC Excluded Tasks | HEC 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. |
| 287 | BASIC_1.8.03 | Integration of installed systems into SAP HEC operations environment | = | HEC Standard Services | |
| 288 | BASIC_1.8.04 | Enablement of HEC system monitoring | = | HEC Standard Services | |
| 289 | BASIC_1.8.22 | Data transfer to HEC during HEC onboarding | = | HEC Optional Services | One-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. |
| 290 | BASIC_1.8.20 | Provide special support to customer during HEC onboarding | = | HEC Additional Service | Depending on scope and approach of HEC 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. |
| 291 | BASIC_1.8.05 | Integration of system with other systems and applications | = | Cloud Application Services ("CAS"). Can be performed by customer. | Create RFC and/or JAVA connections to satellite systems. |
| 292 | BASIC_1.8.07 | Setup monitoring with Customer Solution Manager located in HEC: Installation of additional Diagnostics Agent on customer systems | = | HEC Standard Services | Connecting an SAP Solution Manager system owned by the customer operated in HEC (not the central SAP Solution Manager system owned by HEC) |
| 293 | BASIC_1.8.18 | Setup monitoring with Customer Solution Manager located in HEC: Configuration of monitoring within the customers SAP Solution Manager system | = | Cloud Application Services ("CAS"). Can be performed by customer. | Service charge is calculated per server; monitoring setup is done using only SAP Solution manager standard templates, no customer specific settings and adjustments included. |
| 294 | BASIC_1.8.26 | Configure Solution Manager: Focused Insight standard dashboard | = | Cloud Application Services ("CAS"). Can be performed by customer. | No customer specific settings and adjustments included. |
| 295 | BASIC_1.8.14 | Implementation SAP Best Practices and similar packages | = | HEC Standard Services | The implementation of "Best Practices for SAP S/4HANA" includes the activation of release-dependent business functions in client 000 and the provisioning of a desired copy profile. Customer is responsible for defining/selecting Best Practice business content and country versions. 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. |
| 296 | BASIC_1.8.24 | Implement a preconfigured system from SAP Cloud Appliance Library (CAL) solution in an HEC skeleton system | = | HEC Standard Services | Optional part for installation of systems of customer's HEC solution landscape. |
| 297 | BASIC_1.8.19 | Configuration of SAP online help (local installation) | = | HEC Standard Services | Once (1) per system; subject to contractual change request (CR) to cover increased infrastructure consumption and additional administrative efforts. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 298 | BASIC_1.8.21 | Install ODBC Drivers to connect to external databases | = | HEC Standard Services | On SLT/HANA SDS/BOBJ; customer needs to provide required software including appropriate usage rights for an installation in HEC; customer needs to provide specification for required connection (e. g. SSL/TLS). |
| 299 | 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) | = | HEC Optional Services | Contractual change request (CR) required to reflect higher infrastructure consumption, subject to additional service fees. |
| 300 | BASIC_1.8.10 | Data handover from HEC to customer - one time | = | HEC Standard Services | Efforts for a one-time data handover (creation of export and transfer to media) as part of a contract or system termination are included in the HEC 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. |
| 301 | BASIC_1.8.13 | Data handover from HEC to customer - additional requests | = | HEC Additional Service | Efforts for additional data handover (creation of export and transfer to media). Planning, coordination, media and logistics of shipment as well as all associated costs are customer responsibility. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 302 | | Incident Management | = | | |
| 303 | BASIC_1.16.01 | Operate Call Center receiving incidents 24x7x365 | = | HEC Standard Services | 24x7 support only in English language, local languages where available during business hours and explicitly agreed with the customer. |
| 304 | 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 | = | HEC Standard Services | |
| 305 | BASIC_1.16.03 | Sign-off/Approve solution and confirm incident resolution | = | HEC Excluded Tasks | |
| 306 | | Event detection and notification ("monitoring") | = | | |
| 307 | BASIC_1.8.17 | Monitoring and event detection of SAP system availability and critical system states | = | HEC Standard Services | Monitoring requirements are defined based on HEC Roles & Responsibilities and SLAs; activated monitoring metrics and used thresholds are subject to constant change and tuning. |
| 308 | BASIC_1.7.07 | Monitor critical business transactions | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 309 | | General Operations | = | | |
| 310 | BASIC_1.8.08 | Start/Stop HEC managed systems | = | HEC Standard Services | |
| 311 | BASIC_1.1.15 | Troubleshooting of technical issues in HEC managed systems | = | HEC Standard Services | For technical issues only; application related problems must be resolved by the customer. |
| 312 | BASIC_1.1.14 | Assist customers with tasks in their area of responsibility, if OS access is required | = | HEC 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 HEC. The HEC 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. A Service charge is calculated per server. |
| 313 | BASIC_1.1.16 | Regular analysis and maintenance of SAP system profile parameters | = | HEC Standard Services | HEC is responsible for executing this task as it can have impact on system performance and availability. HEC will provide recommendations for technical system parameters; HEC will also adjust parameters by customer request except for certain standardized settings required to maintain system stability or security. |
| 314 | | SAP Security Management | = | | |
| 315 | BASIC_1.2.22 | Define and implement security concept for application | = | HEC Excluded Tasks | |
| 316 | BASIC_1.2.23 | Define and implement infrastructure security concept | = | HEC Standard Services | Special rules apply for HEC Server Provisioning; please refer to the respective section for details. |
| 317 | BASIC_1.2.19 | Customer specific Security Audit Log analysis | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 318 | BASIC_1.2.20 | Analyze the SAP system and identify relevant SAP security notes | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 319 | BASIC_1.2.17 | Definition, maintenance, review and audit of roles, profiles, authorizations etc. | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 320 | BASIC_1.2.18 | Administration of customer users (e.g. user creation, change, deletion, maintenance of user profiles, roles, authorizations, master data and passwords) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 321 | BASIC_1.2.15 | Maintain user profiles, roles, authorizations, master data and passwords in client 000 | = | HEC Standard Services | |
| 322 | BASIC_1.2.16 | Provide access to client 000 for customer | = | HEC Standard Services | Restricted, predefined profile only; limited set of users provided; service provided on request only. |
| 323 | BASIC_1.2.25 | Design / Architecture of Single Sign On (SSO) for systems in HEC landscape | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 324 | BASIC_1.2.24 | Implementation of Single Sign On (SSO) for systems in HEC landscape | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 325 | BASIC_1.2.21 | Provide audit log information to customers | = | HEC 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. |
| 326 | | Homogeneous system copy (aka System refresh) | = | 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 need to be evaluated on a case by case basis and is not possible in all cases. | |
| 327 | BASIC_1.3.11 | Pre-processing tasks, i.e. export tables with 'old' configuration | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 328 | BASIC_1.3.10 | Homogeneous system copy (Planning, preparations, checks, database backup, database restore, technical post processing tasks, test of technical system functionality) | = | HEC Standard Services | Standard fixed service valid for system sizes <=500GB (actual database size) and single node system architecture. System copy for systems >500GB or multi-node architecture are performed on time & material basis. |
| 329 | BASIC_1.3.07 | Post processing tasks e.g. Embedded Search, BDLS | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 330 | | Heterogeneous system copy (aka System migration) | = | A heterogeneous system copy is defined as a new system which is built as copy from an existing system in the landscape within the same data center or hyperscaler platform. Copies for non-NetWeaver systems need to be evaluated on a case by case basis and is not possible in all cases. | |
| 331 | BASIC_1.14.01 | Heterogeneous system copy | = | HEC Standard Services | Scope, approach and price subject to individual planning depending on circumstances and requirements; change request (CR) required for infrastructure changes. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 332 | | Release Management | = | | |
| 333 | BASIC_1.5.13 | Installation of new entities in the system after initial customer handover during HEC Onboarding (applies to e.g. add-ons and other sorts of additional solution packages, languages, content packages etc.) | = | HEC Standard Services | Contractual Change Request (CR) required in case of changed managed service scope or increased infrastructure consumption. |
| 334 | BASIC_1.5.13A | Installation of new software entities in the system after initial customer handover during HEC Onboarding (applies to e.g. add-ons and other sorts of additional solution packages) | = | HEC Standard Services | Contractual Change Request (CR) required in case of changed managed service scope or increased infrastructure consumption. |
| 335 | BASIC_1.5.13B | Installation of new content in the system after initial customer handover during HEC Onboarding (applies to e.g. languages, content packages etc.) | = | HEC Standard Services | Contractual Change Request (CR) required in case of changed managed service scope or increased infrastructure consumption. |
| 336 | BASIC_1.5.03 | Implement SAP Notes 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) | = | Cloud Application Services ("CAS"). Can be performed by customer. | Delineation between "application" and "technical" is defined by this HEC Roles & Responsibilities document; fixing issues that fall into the responsibility of HEC per the R&R are considered "technical" and notes would be applied as defined in the respective 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 HEC standard service. The two areas, where the HEC service mostly applies are BC-CST and BC-DB |
| 337 | BASIC_1.5.04 | Implement SAP Notes 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) | = | HEC Standard Services | Dependent on criticality of repair and only if no appropriate Support Package is available; delineation between "application" and "technical" is defined by the HEC Roles & Responsibilities document; fixing issues that fall into the responsibility of HEC per the R&R are considered "technical" and notes would be applied as defined in the respective 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 HEC standard service. The two areas, where the HEC 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. |
| 338 | BASIC_1.5.06 | Implementation of patches for system software running on OS level, e.g. SAP kernel | = | HEC Standard Services | May require additional system downtime. |
| 339 | BASIC_1.5.21 | Implementation of kernel patches using rolling kernel update mechanism | = | HEC Additional Service | 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 the Rolling Kernel Switch (RKS) procedure at least one application server instance is always available for business operations. |
| 340 | BASIC_1.5.09 | Implement updates to the managed SAP solution using standard tools and methods | = | HEC Standard Services | 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; this line item does not include the usage of more sophisticated update approaches like nZDT/ZDO/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. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 341 | BASIC_1.5.11 | Implement updates to the managed SAP solution using advanced tools and methods which are part of the HEC Maintenance Downtime Minimization Service to minimize required downtime | = | HEC 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), 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; Note: any implementation of updates may require additional system downtime or pre-requisites for system resources to include but not limited to additional memory, CPU, and a QA or Pre-production system to perform testing and validation. System resources not available in the existing customer landscape 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 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. |
| 342 | BASIC_1.5.10 | Ongoing maintenance of system languages, e.g. performing language fill-up | = | HEC Standard Services | |
| 343 | BASIC_1.1.01 | Version upgrade of SAP Software: Upgrade planning and coordination | = | Cloud Application Services ("CAS"). Can be performed by customer. | 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. |
| 344 | BASIC_1.5.07 | Version upgrade of SAP Software: Execute technical upgrade tasks | = | HEC 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. |
| 345 | BASIC_1.5.22 | Version upgrade/update of SAP Software: Pre- and Post BASIS Tasks | = | Cloud Application Services ("CAS"). Can be performed by customer. | Examples for this service include, run simplification check; unlock objects; remove inactive objects; implement upgrade related notes; run modification adjustment for technical issues. 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. |
| 346 | BASIC_1.5.08 | Execute application related technical tasks as part of Release and Change Management (e.g. application testing, adjustments, content/functional activation) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 347 | BASIC_1.5.20 | Conversion of SAP ERP and SAP BW systems to SAP S/4HANA and SAP BW4/HANA | <> | HEC 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 SAP Consulting might be required. |
| 348 | | Proactive services | = | | |
| 349 | BASIC_1.7.02 | Prepare SAP service sessions session by maintaining RTCCTOOL | <> | HEC 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. |
| 350 | BASIC_1.7.03 | Analysis of SAP Service Session reports (incl. EarlyWatch Alert) for systems operated in SAP HEC for findings and recommendations regarding aspects within the service scope of SAP HEC (technical operations) | <> | HEC Standard Services | Performed only for productive systems. |
| 351 | BASIC_1.7.09 | Analysis of SAP Service Session reports (incl. EarlyWatch Alert) for systems operated in SAP HEC. Provide recommendations for changes related to SAP application (outside technical operations scope of HEC standard service) | <> | Cloud Application Services ("CAS"). Can be performed by customer. | Performed only for productive systems. |
| 352 | | System performance management | = | | |
| 353 | BASIC_1.12.01 | Initial assessment of system performance issues | <> | HEC Standard Services | HEC 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 HEC 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. |
| 354 | BASIC_1.12.03 | Troubleshoot SAP system performance issues (technical root causes within HEC service scope) | <> | HEC Standard Services | Based on the result of the initial assessment; troubleshooting by HEC is only performed in situations caused by technical issues within the service scope of HEC and where the system performance lies outside usual and expectable behavior (e.g. as it has shown in the past in comparable load situations within HEC). |
| 355 | BASIC_1.12.02 | Performance and Benchmark Service | <> | HEC Optional Services | This is an optional service package that includes the definition of performance metrics and measurements against those to identify deviations in system behavior; a detailed service description is available. |
| 356 | BASIC_1.7.06 | Analyze and troubleshoot performance issues (root causes outside HEC service scope and application related root causes) | = | Cloud Application Services ("CAS"). Can be performed by customer. | In some situations HEC might be able to support the customer using an HEC Application Management as a CAS service. |
| 357 | BASIC_1.12.04 | Execute performance tuning | = | HEC Additional Service | Improve the performance of a system; tuning activities can result in service requests related to other line items in this document, e.g. parameter changes, which are partly covered by the HEC standard service. Performed only for productive systems. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 358 | BASIC_1.7.08 | Review and optimize customer code to improve system performance and stability | = | HEC Excluded Tasks | |
| 359 | | Certificate Handling | = | | |
| 360 | BASIC_1.11.01 | Generate Certificate Signing Request (CSR) | = | HEC Standard Services | Except LoadBalancers, Web Dispatchers, Data Services, SAP Cloud Platform Integration - Data Services Agent, BO and other systems; for these systems HEC will generate the CSR and hand it over to the customer for further processing. |
| 361 | BASIC_1.11.09 | Generate Certificate Signing Request (CSR) for LoadBalancers, Web Dispatchers, Data Services and BO systems | = | HEC Standard Services | |
| 362 | BASIC_1.11.02 | Send request to Certificate Authority | = | HEC Excluded Tasks | |
| 363 | BASIC_1.11.08 | Creating SSL server / client identity with key pair | = | HEC Standard Services | |
| 364 | BASIC_1.11.04 | System (OS Level) configuration to enable SSL/TLS | = | HEC Standard Services | |
| 365 | BASIC_1.11.05 | System (Application Level) configuration to enable SSL/TLS | = | HEC Standard Services | |
| 366 | BASIC_1.11.07 | Implement signed certificate for LoadBalancers, Web Dispatchers, Data Services, SAP Cloud Platform Integration - Data Services Agent and BO systems | = | HEC Standard Services | |
| 367 | BASIC_1.11.10 | Implement other signed certificate to managed system | = | HEC Standard Services | Other than LoadBalancers, Web Dispatchers, Data Services, SAP Cloud Platform Integration - Data Services Agent, BO, and other systems. |
| 368 | BASIC_1.11.06 | Monitor validity period of certificates | = | Cloud Application Services ("CAS"). Can be performed by customer. | Customer to provide URL for certificate check (e.g. FLP). Manual monitoring; effort based per execution. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 369 | | Disaster Recovery | = | | |
| 370 | BASIC_1.9.01 | Implement disaster recovery setup according to architecture blueprint and contractual specifications. Test HEC internal data center and technical system infrastructure | <> | HEC Optional Services | Performed only for productive systems; only included in HEC service if disaster recovery solution is part of the contract/SOW/Order Form. HEC internal testing requires additional downtime. |
| 371 | BASIC_1.9.02 | Develop and use disaster recovery procedures for database and file system replication only. | <> | HEC Optional Services | Performed only for productive systems; only included in HEC service if disaster recovery solution is part of the contract/SOW/Order Form. |
| 372 | BASIC_1.9.03 | Ongoing management of disaster recovery architecture: monitoring of data replication to secondary site including troubleshooting | <> | HEC Optional Services | Performed only for productive systems; only included in HEC service if disaster recovery solution is part of the contract/SOW/Order Form. |
| 373 | 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 | <> | HEC Optional Services | Performed only for productive systems; only included in HEC service if disaster recovery solution is part of the contract/SOW/Order Form. |
| 374 | BASIC_1.9.05 | Develop and maintain disaster recovery procedures for those areas and aspects of the service which are in customer responsibility | <> | HEC Excluded Tasks | Included customer infrastructure, connectivity to HEC, interfaces (including RFC connections, connection details in other integrated systems), organizational measures and processes etc. |
| 375 | BASIC_1.9.06 | Execute failover during disaster recovery test (DB, application and cnames) | <> | HEC Optional Services | Note: 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 HEC 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. |
| 376 | BASIC_1.9.10 | Execute failover during disaster recovery test (DB, application and cnames) - additional test | <> | HEC Additional Service | Additional test. Note: 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 HEC 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. |
| 377 | BASIC_1.9.09 | Execute online disaster recovery tests (data center and technical system infrastructure only); primary systems remain accessible | <> | HEC Additional Service | 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. |
| 378 | BASIC_1.9.07 | Execute productive failover in case of an officially declared disaster by HEC provider - all HA/DR architecture scenarios. | <> | HEC Optional Services | True disaster declaration for all HA/DR architecture scenarios. "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 HEC service if disaster recovery solution is part of the contract/SOW/Order Form. |
| 379 | BASIC_1.9.11 | Mixed HA/DR: Execute productive failover for a specific SID and invert replication vector | <> | HEC Optional Services | Full productive failover. For Mixed HA/DR architecture scenarios in SAP datacenters. Maximum of one (1) customer requested failover per calendar year is included. Failovers which are the result of SAP-declared disasters do not count against maximum. Additional customer requested failovers will be charged via EMS. Only included in HEC service if disaster recovery solution is part of the contract/SOW/Order Form. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 380 | BASIC_1.9.12 | Mixed HA/DR: Execute productive failover for a specific SID and invert replication vector - additional customer requests | <> | Cloud Application Services ("CAS"). Cannot be performed by customer. | For testing purposes. Full productive failover. For Mixed HA/DR architecture scenarios in SAP datacenters. Maximum of one (1) customer requested failover per calendar year is included. Failovers which are the result of SAP-declared disasters do not count against maximum. Additional customer requested failovers will be charged via EMS. Only included in HEC service if disaster recovery solution is part of the contract/SOW/Order Form. |
| 381 | | Operations Extension | = | These services provide possible extensions to areas of Incident, Change and Event Management beyond the standard scope of HEC services | |
| 382 | BASIC_1.15.01 | Incident Management: Troubleshooting of technical/non-functional incidents not included in HEC Standard Services as per R&R Definition | = | Cloud Application Services ("CAS"). Can be performed by customer. | Only available for managed systems. |
| 383 | BASIC_1.15.02 | Change Management: Changes of technical system configuration not included in HEC Standard Services as per R&R Definition | = | Cloud Application Services ("CAS"). Can be performed by customer. | Only available for managed systems. |
| 384 | BASIC_1.15.03 | Event management: Monitor technical/non-functional event types not included in HEC Standard Service as per R&R Definition | = | Cloud Application Services ("CAS"). Can be performed by customer. | Only available for managed systems. |
| 385 | BASIC_1.15.04 | Service Request Fulfillment: Perform Service Request Fulfillment for technical/non-functional task not included in HEC Standard Service as per R&R Definition | = | Cloud Application Services ("CAS"). Can be performed by customer. | Only available for managed systems. |
| 386 | | E - NetWeaver Operations (ABAP and JAVA) | = | Depending on technical conditions some tasks listed in this section are applicable to only one of the two platforms (NW ABAP or NW JAVA) | |
| 387 | | General NetWeaver Operations | = | | |
| 388 | TO_NWABAP_1.1.04 | Analyze SAP system log and fix technical failures included in scope of services | = | HEC Standard Services | May require customer assistance |
| 389 | TO_NWABAP_1.1.06 | Monitor update processes within SAP software to avoid system operations issues | = | HEC Standard Services | HEC informs customer of update process problems; RCA methods provided by SAP Enterprise Support may be used to find application related root causes for updates. |
| 390 | TO_NWABAP_1.1.07 | Analyze update terminations, determine business impact and appropriate action | = | Cloud Application Services ("CAS"). Can be performed by customer. | With regards to application issues and impact. |
| 391 | TO_NWABAP_1.1.08 | Clean up terminated updates | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 392 | TO_NWABAP_1.1.10 | Analyze lock entries, determine business impact and appropriate action | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 393 | TO_NWABAP_1.1.11 | Check/clear lock entries | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 394 | TO_NWABAP_1.1.12 | Check for ABAP dumps to detect serious system issues | <> | HEC Standard Services | HEC informs customer in the event of serious application related issues that need to be resolved by the customer. Dumps relevant to HEC's responsibility will be resolved by HEC. |
| 395 | TO_NWABAP_1.1.22 | Regular ABAP dump check and classification | = | Cloud Application Services ("CAS"). Can be performed by customer. | Including application related dumps. |
| 396 | TO_NWABAP_1.1.23 | Analyze SAP application log and provide recommendations on fixing failures | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 397 | TO_NWABAP_1.1.24 | Reorganize qRFC/tRFC queues | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 398 | TO_NWABAP_1.1.25 | Regularly check fastest growing tables in the SAP system and provide recommendations for archiving or reorganization | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 399 | TO_NWABAP_1.1.13 | Administer SAP Logon Groups | = | HEC Standard Services | The customer may perform this activity; if HEC is requested to perform the task, the design/definition must be provided by customer. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400 | TO_NWABAP_1.1.26 | Creation/Update/Change of the System-PSE (Personal Security Environment) | = | HEC Standard Services | Customers may decide to perform this task themselves for convenience. |
| 401 | TO_NWABAP_1.1.16 | Implement/update tools to ensure readiness for SAP support services | = | HEC Standard Services | |
| 402 | TO_NWABAP_1.1.20 | Definition of archiving strategy | = | HEC Excluded Tasks | |
| 403 | TO_NWABAP_1.1.21 | Execution and monitoring of archiving process | = | Cloud Application Services ("CAS"). Can be performed by customer. | 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 setup, retention configuration, investigate / troubleshooting of the unarchivable documents/objects is customer's responsibility. |
| 404 | TO_NWABAP_1.1.17 | Management of Web Service Runtime (WSRT) | = | Cloud Application Services ("CAS"). Can be performed by customer. | Activation of WSRT in client 000 is done by HEC on request and free of charge |
| 405 | TO_NWABAP_1.1.18 | Configure technical RFC connections (TA SM59) to central systems managed by SAP used for system operations | = | HEC Standard Services | Technical RFC connection = generic RFC connection required for all HEC based systems the same way, e.g. for HEC monitoring configuration. |
| 406 | TO_NWABAP_1.1.19 | Configure RFC connections (TA SM59) to technical systems managed by the customer and any application-related RFC connection | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 407 | TO_J2EE_1.1.01 | Troubleshooting of SAP J2EE in case of technical issues | = | HEC Standard Services | For technical issues only; application related problems must be resolved by the customer. |
| 408 | TO_J2EE_1.1.02 | SAP J2EE: adjust/configure Java applications | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 409 | | SAP Client Operations | = | | |
| 410 | TO_NWABAP_1.2.01 | Copy client within one SAP System (including analysis and resolution of technical issues) | = | HEC Standard Services | 500GB upper limit, above that threshold, only system copies are performed because of technical restrictions. |
| 411 | TO_NWABAP_1.2.06 | Delete client within one SAP System (including analysis and resolution of technical issues) | = | HEC Standard Services | |
| 412 | TO_NWABAP_1.2.02 | Perform client export/import or remote client copy between SAP systems (including analysis and resolution of technical issues) | = | HEC Standard Services | 500GB upper limit, above that threshold, only system copies are performed because of technical restrictions. |
| 413 | TO_NWABAP_1.2.07 | Pre-processing tasks, i.e. suspend jobs, lock users, export tables with 'old' configuration | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 414 | TO_NWABAP_1.2.08 | Post processing tasks, i.e. Enterprise Search, Fiori Launchpad, unlock user, release jobs | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 415 | TO_NWABAP_1.2.05 | Investigate and resolve application related issues (e.g. with certain database tables and fields) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 416 | | Interface Administration | = | | |
| 417 | TO_NWABAP_1.3.24 | Creation, execution, monitoring and troubleshooting of batch input sessions | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 418 | TO_NWABAP_1.3.25 | Configuration of interface related functions (e.g. IDOCs, interface scripts and jobs, qRFC/tRFC/bgRFC, ALE scenarios etc.) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 419 | TO_NWABAP_1.3.26 | Monitoring of interfaces and interface related functions | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 420 | TO_NWABAP_1.6.03 | Establish trust relationships between SAP NW ABAP systems | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 421 | | Job Scheduling | = | | |
| 422 | 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 | = | HEC Standard Services | Per SAP guidelines as defined in SAP Note 16083; additional SAP standard jobs to be reviewed and agreed with customer. |
| 423 | TO_NWABAP_1.4.14 | Define production job schedule and dependencies based on business requirements | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 424 | TO_NWABAP_1.4.15 | Administration of application batch jobs: - Job monitoring - Troubleshooting according to troubleshooting handbook | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 425 | | Transport Management | = | | |
| 426 | TO_NWABAP_1.5.10 | Create and maintain transport domain in client 000 and transport directory | = | HEC Standard Services | Migrating the transport method from HTC to HTA is not included in this task. |
| 427 | TO_NWABAP_1.5.15_AE | Initial setup of SAP transport management system (TMS) and configure transport routes | = | HEC Standard Services | |
| 428 | TO_NWABAP_1.5.11 | Maintain SAP transport management system and configure transport routes and any further configuration (automatic import, scheduled import etc.) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 429 | TO_NWABAP_1.5.12 | Initial configuration of Transport-based correction instructions (TCI) in client 000 | = | HEC Standard Services | |
| 430 | TO_NWABAP_1.5.13 | Implement SAP Note Transport-based correction instructions (TCI) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 431 | TO_NWABAP_1.5.01 | Setup of CTS+ | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | OS access required. |
| 432 | TO_NWABAP_1.5.02 | Transfer and release of transport orders | = | Cloud Application Services ("CAS"). Can be performed by customer. | Before importing critical transports the customer should inform HEC and perform the transport as a scheduled activity. |
| 433 | TO_NWABAP_1.5.03 | Execute transports to move objects between SAP systems | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 434 | TO_NWABAP_1.5.04 | Troubleshooting SAP Transport Management System | = | HEC Standard Services | Only for technical transport problems, not related to problems due to the content of the transports, e.g. locked objects. |
| 435 | TO_NWABAP_1.5.08 | Adjustment of repository objects as part of software changes | = | Cloud Application Services ("CAS"). Can be performed by customer. | Execution of adjustments in SPDD/SPAU for SAP objects. Customer objects in SPDD/SPAU require customers decision during execution. |
| 436 | TO_NWABAP_1.5.14 | Setup and configuration of CHaRM | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 437 | TO_NWABAP_1.5.09 | Testing and acceptance of object changes | = | HEC Excluded Tasks | |
| 438 | | Output Management | = | | |
| 439 | TO_NWABAP_1.7.01 | Create, change and delete printers within SAP solution | = | Cloud Application Services ("CAS"). Can be performed by customer. | HEC would only support printer types contained in SAP published guidelines. |
| 440 | TO_NWABAP_1.7.02 | Analyze faulty output requests (transaction SP01) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 441 | TO_NWABAP_1.7.03 | Reorganize SAP spool system to keep system clean | = | HEC Standard Services | Via SAP standard batch job. |
| 442 | TO_NWABAP_1.7.04 | Design and implementation of print forms | = | HEC Excluded Tasks | |
| 443 | TO_NWABAP_1.7.05 | Lock/unlock SAP printers | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 444 | TO_NWABAP_1.7.06 | Check spooler table consistency to prevent printing issues | = | HEC Standard Services | Via SAP standard batch job. |
| 445 | TO_NWABAP_1.7.07 | Configuration of virtual spool (load balancing between spool processes) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 446 | TO_NWABAP_1.7.08 | Troubleshooting technical spool- and print-problems (within the SAP system) | = | HEC Standard Services | Problems caused outside the SAP system/solution scope must be solved by the customer. |
| 447 | TO_NWABAP_1.7.09 | Local printing and support | ↔ | not offered | Local printing requires printer drivers to be installed on HEC servers which is not offered in HEC due to availability of drivers in SUSE repositories, security restrictions, and possible performance degradation. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 448 | | F - Server Provisioning (aka IaaS) | = | | 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). |
| 449 | | Security Planning | = | | |
| 450 | TO_SPROV_1.4.01 | Provide application communication requirements | = | HEC Excluded Tasks | |
| 451 | TO_SPROV_1.4.02 | Determine communication and security requirements | = | HEC Excluded Tasks | |
| 452 | TO_SPROV_1.4.03 | Create and maintain security policies | = | HEC Excluded Tasks | |
| 453 | TO_SPROV_1.4.04 | Determine security strategy and implementation plans | = | HEC Excluded Tasks | |
| 454 | TO_SPROV_1.4.05 | Monitor and assess security strategies | = | HEC Excluded Tasks | |
| 455 | | Hardware Operations | = | | |
| 456 | TO_SPROV_1.5.03 | Plan and conduct HEC infrastructure maintenance | = | HEC Standard Services | |
| 457 | | Server Management | = | | |
| 458 | TO_SPROV_1.6.11 | Sizing of server infrastructure | = | HEC 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. |
| 459 | TO_SPROV_1.6.01 | Provide server infrastructure | = | HEC Standard Services | |
| 460 | TO_SPROV_1.6.02 | Provide licenses for OS | = | HEC Standard Services | Licenses will be provided and charged by HEC. |
| 461 | TO_SPROV_1.6.03 | Basic operating system installation | = | HEC Standard Services | Supported OS: SUSE LINUX and MS Windows Server (most up-to-date HEC versions). |
| 462 | TO_SPROV_1.6.04 | Installation of OS patches and security updates | = | HEC Excluded Tasks | Server will be shipped with the latest available security patch level, after hand over customer is responsible for updates. |
| 463 | TO_SPROV_1.6.05 | Installation of antivirus software and patterns updates | = | HEC Excluded Tasks | Customer is responsible for Antivirus installation and virus pattern updates on a daily basis. |
| 464 | TO_SPROV_1.6.06 | Antivirus software licenses | = | HEC Excluded Tasks | |
| 465 | TO_SPROV_1.6.07 | Perform scheduled startup/shutdown of hardware | = | HEC Standard Services | Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler). |
| 466 | TO_SPROV_1.6.08 | Restart the hardware after failure | = | HEC Standard Services | Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler). |
| 467 | TO_SPROV_1.6.09 | Monitoring of hardware on hypervisor level | = | HEC Standard Services | Infrastructure related services may be different depending on deployed infrastructure platform (e.g. Hyperscaler). |
| 468 | TO_SPROV_1.6.10 | Monitoring of operating system of provided OS instances | = | HEC Excluded Tasks | |
| 469 | | Storage Management | = | | |
| 470 | TO_SPROV_1.7.01 | Initial setup and ongoing management of storage | = | HEC 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). |
| 471 | TO_SPROV_1.7.02 | Manage data files/file systems | = | HEC Excluded Tasks | |
| 472 | 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. | = | HEC Excluded Tasks | |
| 473 | 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. | = | HEC Standard Services | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 474 | TO_SPROV_1.7.06 | Mount of file system from managed server to an IaaS server | = | HEC 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 HEC Account Manager; customers must not execute tasks using this mount that put a risk to performance or stability of the managed HEC infrastructure (e. g. network services, large volume data syncs etc.). |
| 475 | TO_SPROV_1.7.05 | Scale storage capacity | = | HEC Optional Services | |
| 476 | | Application Management | = | | |
| 477 | TO_SPROV_1.8.01 | Define application requirements | = | HEC Excluded Tasks | |
| 478 | TO_SPROV_1.8.02 | Provide customer specific software licenses | = | HEC Excluded Tasks | Customer must make sure that they hold valid licenses to run the installed software in an environment such as SAP HEC |
| 479 | TO_SPROV_1.8.03 | Application installation | = | HEC Excluded Tasks | |
| 480 | TO_SPROV_1.8.04 | Application operations | = | HEC Excluded Tasks | |
| 481 | TO_SPROV_1.8.05 | Installation of patches and security updates | = | HEC Excluded Tasks | Customer is responsible for software lifecycle management |
| 482 | TO_SPROV_1.8.06 | Application monitoring | = | HEC Excluded Tasks | |
| 483 | | IaaS VM Snapshot (offline image backup) | = | | |
| 484 | TO_SPROV_1.10.01 | Service Setup | = | HEC Optional Services | |
| 485 | TO_SPROV_1.10.02 | Request additional storage for copy of block device | = | HEC 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. |
| 486 | TO_SPROV_1.10.04 | Snapshot of IaaS | = | HEC 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. |
| 487 | TO_SPROV_1.10.05 | Restart server and inform customer | = | HEC Optional Services | After successful restart of VM, inform customer and update the ticket. |
| 488 | TO_SPROV_1.10.06 | Start required applications on server | = | HEC Excluded Tasks | Customer needs to make sure that applications are started after the snapshot operation. |
| 489 | | Disaster Recovery | = | | |
| 490 | TO_SPROV_1.9.01 | Provide VM and related storage in the secondary data center | <> | HEC Optional Services | Only for those IaaS servers explicitly specified in the contract as relevant for DR. |
| 491 | TO_SPROV_1.9.02 | Setup 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. | <> | HEC Excluded Tasks | |
| 492 | | G - Cloud Application Services | = | | |
| 493 | | Cloud Application Services - Reactive Services | = | | Only available for managed systems. Service delivery requires initial scoping for relevant application area before tasks can be |
| 494 | CAS_1.1.01 | Incident Management: Troubleshooting of functional incidents in SAP applications | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 495 | CAS_1.1.02 | Problem Management: root cause analysis and resolution of problems in SAP applications | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 496 | CAS_1.1.03 | Service Request Fulfillment: Perform Service Request Fulfillment for functional tasks in SAP applications | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 497 | CAS_1.1.04 | Event Management: Monitor functional event types in SAP applications | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 498 | CAS_1.1.05 | Change Management: Changes of functional configuration in SAP applications | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 499 | | Cloud Application Services - Proactive Services | = | | |
| 500 | CAS_1.2.01 | Continuous Operations | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 501 | CAS_1.2.02 | Extended Application Security Operations | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 502 | CAS_1.2.03 | Managed Operations Control Center | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 503 | CAS_1.2.04 | Test Management and Execution | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 504 | CAS_1.2.05 | Deployment Management | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 505 | CAS_1.2.06 | Operations Improvement | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 506 | CAS_1.2.07 | Business Improvement | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 507 | CAS_1.2.08 | Data Integration & Lifecycle Management | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 508 | | X1 - 3rd Party Software | = | | |
| 509 | | 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 HEC contract for the customer) | = | Customer must ensure proper licensing of the respective 3rd party software allowing its usage in HEC; 3rd party software in the context of HEC 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 HEC has to be individually checked by the customer; HEC will not take responsibility for negative effects on the underlying system and infrastructure platform managed by HEC which are caused by any such 3rd Party Solution | |
| 510 | | Managed 3rd Party ABAP add-ons | = | For selected 3rd party NW ABAP add-ons which are listed on the SAP license price list HEC 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 HEC contract | |
| 511 | TO_PA_1.1.01 | Installation | = | HEC Standard Services | |
| 512 | TO_PA_1.1.02 | Configuration | = | HEC Excluded Tasks | |
| 513 | TO_PA_1.1.03 | Application monitoring | = | HEC Excluded Tasks | |
| 514 | TO_PA_1.1.04 | Apply updates | = | HEC Standard Services | |
| 515 | TO_PA_1.1.05 | Application troubleshooting including engagement with the partners support organization | = | HEC Excluded Tasks | |
| 516 | TO_PA_1.1.06 | Uninstallation of ABAP Add-ons | = | HEC Standard Services | |
| 517 | | Unmanaged 3rd Party ABAP add-ons | = | | |
| 518 | TO_PA_1.2.01 | Installation | = | HEC Excluded Tasks | |
| 519 | TO_PA_1.2.02 | Configuration | = | HEC Excluded Tasks | |
| 520 | TO_PA_1.2.03 | Application monitoring | = | HEC Excluded Tasks | |
| 521 | TO_PA_1.2.04 | Apply updates | = | HEC Excluded Tasks | |
| 522 | TO_PA_1.2.05 | Application troubleshooting including engagement with the partners support organization | = | HEC Excluded Tasks | |
| 523 | | Other unmanaged 3rd Party Software | = | Any type of 3rd party software which is requested to be installed in total or in parts on the managed HEC infrastructure is subject to prior evaluation by HEC. Details of this process and conditions are documented in the respective HEC 3rd party software policies. | |
| 524 | TO_PA_1.3.01 | 3rd party software evaluation | = | HEC 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. |
| 525 | | X2 - Business Connector | = | | |
| 526 | | Operations | = | | |
| 527 | TO_BC_1.1.04 | Reorganization of Message Store | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 528 | | X3 - SAP CO-PA Accelerator | = | | |
| 529 | | Operations | = | | |
| 530 | TO_CO-PA_1.1.01 | Determine initial data load procedure | = | HEC Excluded Tasks | |
| 531 | TO_CO-PA_1.1.02 | Perform initial data load procedure | = | HEC Excluded Tasks | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|-----------------|-----------------------------------------|---|-------------------------------------|---------------------------------------------|
| 532 | TO_CO-PA_1.1.03 | CO-PA customizing | = | HEC Excluded Tasks | |
| 533 | TO_CO-PA_1.1.04 | Setup DB connection to HANA | = | HEC Excluded Tasks | |
| 534 | TO_CO-PA_1.1.05 | Setup CO-PA Jobs for data replication | = | HEC Excluded Tasks | |
| 535 | TO_CO-PA_1.1.06 | Monitor CO-PA Jobs for data replication | = | HEC Excluded Tasks | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|----------------|-------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 536 | | X4 - SAP Data Services (DS) | = | | |
| 537 | | Operations | = | | |
| 538 | TO_DS_1.1.22 | Authorization - Users and Rights Management | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 539 | TO_DS_1.1.06 | Create/Modify Data Services jobs | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 540 | TO_DS_1.1.07 | Schedule Data Services jobs | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 541 | TO_DS_1.1.08 | Configure database connections | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 542 | TO_DS_1.1.09 | Monitor jobs | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 543 | TO_DS_1.1.10 | Repository backup DS & BOE | = | HEC Standard Services | |
| 544 | TO_DS_1.1.11 | Delete batch job history | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 545 | TO_DS_1.1.12 | Verify that job and access servers are running | = | HEC Standard Services | |
| 546 | TO_DS_1.1.13 | Remove obsolete repository contents | = | HEC Standard Services | |
| 547 | TO_DS_1.1.14 | Troubleshooting issues with DS Jobs | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 548 | TO_DS_1.1.23 | Create/Manage additional repositories | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | System comes with default repositories, if more repositories are requested, these will be delivered via additional service charge. |
| 549 | TO_DS_1.1.26 | Backup: On-Demand - BI Database and File Repo Sync | = | HEC Additional Service | |
| 550 | TO_DS_1.1.27 | Restore: On-Demand - BI Database and File Repo Sync | = | HEC Additional Service | |
| 551 | TO_DS_1.1.28 | Authentication setup and Single Sign On (SSO) configuration | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 552 | TO_DS_1.1.29 | Installation and Configuration of Data Services Adapters | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 553 | TO_DS_1.1.30 | Add and configure additional Job Servers/ Job Groups for load balancing | = | HEC Optional Services | Depending on sizing, additional infrastructure may be required. |
| 554 | TO_DS_1.1.31 | Configure Runtime Resources | = | HEC Standard Services | |
| 555 | TO_DS_1.1.32 | Configure SMTP Email | = | HEC Standard Services | |
| 556 | TO_DS_1.1.33 | Starting and Stopping Services | = | HEC Standard Services | |
| 557 | TO_DS_1.1.34 | Enhanced Change and Transport System (CTS+) Integration Setup | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 558 | TO_DS_1.1.35 | Configure transports via Data Services (DS) Object Promotion Management | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 559 | TO_DS_1.1.36 | Backup Data Services Repository using Import/Export Tool | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 560 | | X5 - SCIC Operations | = | | |
| 561 | | Operations | = | | |
| 562 | TO_SCIC_1.1.03 | Setup initial SCIC of source system | = | Cloud Application Services ("CAS"). Can be performed by customer. | e.g. setup of secondary database connection / RFC. |
| 563 | TO_SCIC_1.1.04 | Setup LiveCache replication jobs in source system | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 564 | TO_SCIC_1.1.06 | Monitor LiveCache replication jobs in customer system | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 565 | TO_SCIC_1.1.09 | Manage end users with HANA Studio | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 566 | | X6 - SAP BusinessObjects Business Intelligence (BI) | = | | |
| 567 | | Operations | = | | |
| 568 | TO_BI_1.1.06 | Backup (Full content backup / BIAR backup) | = | HEC Standard Services | |
| 569 | TO_BI_1.1.07 | Scan / Repair and compact all repository errors | = | HEC Standard Services | |
| 570 | TO_BI_1.1.11 | Clean-up empty directories created for Repository Diagnostic Tool | = | HEC Standard Services | |
| 571 | TO_BI_1.1.26 | Cache Clean-up and Maintenance - Tomcat, Web Intelligence, Log Files | = | HEC Standard Services | |
| 572 | TO_BI_1.1.17 | Program Object Actions: Import and Execution | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 573 | TO_BI_1.1.18 | Promote/deploy BI objects between environments | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 574 | TO_BI_1.1.19 | Create, rename, remove connections and Universes | = | HEC Excluded Tasks | |
| 575 | TO_BI_1.1.21 | Provide user access and maintain authorizations | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 576 | TO_BI_1.1.47 | SAML configuration | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 577 | TO_BI_1.1.27 | Deploy templates and system configurations for hardware changes | = | HEC Standard Services | |
| 578 | TO_BI_1.1.29 | Auditing/Monitoring Driver Setup and configuration for Audit reporting | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 579 | TO_BI_1.1.30 | Perform ERP Integration Setup and Configuration | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 580 | TO_BI_1.1.33 | Backup: On-Demand - BI Database and File Repo Sync | = | HEC Additional Service | |
| 581 | TO_BI_1.1.34 | Restore: On-Demand - BI Database and File Repo Sync | = | HEC Additional Service | |
| 582 | TO_BI_1.1.35 | Authentication setup and Single Sign On SSO configuration | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 583 | TO_BI_1.1.36 | Configure Cryptography Settings | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 584 | TO_BI_1.1.37 | Configure Web Application - Reverse Proxy Settings | = | HEC Standard Services | |
| 585 | TO_BI_1.1.38 | Add and configure additional BI servers for load balancing | = | HEC Optional Services | Additional infrastructure may be required. |
| 586 | TO_BI_1.1.39 | Manage Server Process and Server Groups | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 587 | TO_BI_1.1.40 | Setup/Support technical tasks for BI Report Version Management | = | HEC Standard Services | Customer responsible for maintaining report versions. |
| 588 | TO_BI_1.1.41 | Enhanced Change and Transport System (CTS+) Integration Setup | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 589 | | X7 - SAP PI | = | | |
| 590 | | SAP PI Implementation | = | | |
| 591 | TO_PI_1.1.01 | Installation of adapters and software components provided by SAP | = | HEC Standard Services | Included only for items explicitly specified in the HEC 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. |
| 592 | TO_PI_1.1.02 | Installation of adapters provided by external partners | = | HEC 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. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|---------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 593 | TO_PI_1.1.03 | Configuration of the required system connections to partner systems | = | Cloud Application Services ("CAS"). Can be performed by customer. | Time & material basis for changes in network setup (routers, firewalls access lists). Customer must provide network connections to target systems. |
| 594 | TO_PI_1.1.04 | Creation of SSL views and PSEs | = | HEC Excluded Tasks | |
| 595 | | SAP PI Operations | = | | |
| 596 | TO_PI_2.1.02 | Monitor application-specific PI functions, e.g. messaging, queues etc. | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 597 | TO_PI_2.1.03 | Monitor the message processing in PI (success & performance) | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 598 | TO_PI_2.1.04 | Monitor communication channels, queues, backlogs of PI (AEX) | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 599 | TO_PI_2.1.05 | Monitor BPM processes (success & performance) | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 600 | TO_PI_2.1.06 | Configure adapters | = | HEC Excluded Tasks | |
| 601 | TO_PI_2.1.07 | Deal with incorrect messages | = | HEC Excluded Tasks | |
| 602 | TO_PI_2.1.08 | Configure message archiving | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 603 | TO_PI_2.1.27 | Execute and monitor message archiving | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 604 | TO_PI_2.1.11 | Role/authorization maintenance (except SAP & initial customer administrator role) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 605 | TO_PI_2.1.16 | Maintain users (except for the SAP and initial customer administrator role) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 606 | TO_PI_2.1.17 | Setup of PI / BPM / AEX housekeeping | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 607 | TO_PI_2.1.28 | Monitor housekeeping activities of PI / BPM / AEX | = | Cloud Application Services ("CAS"). Can be performed by customer. | Manual monitoring; effort based per execution. |
| 608 | TO_PI_2.1.19 | Adjust PO/PI /AEX parameterization and configuration | = | Cloud Application Services ("CAS"). Can be performed by customer. | The configuration doesn't cover the realization of integration scenarios (content development). |
| 609 | TO_PI_2.1.21 | Maintain the system landscape directory (SLD) | = | Cloud Application Services ("CAS"). Can be performed by customer. | Related to PI scenarios. |
| 610 | TO_PI_2.1.22 | Apply SAP basic application content update to the Enterprise Service Repository (ESR) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 611 | TO_PI_2.1.23 | Handle errors and analyze root cause for incorrect message processing in PI (AEX) | = | HEC Excluded Tasks | |
| 612 | TO_PI_2.1.24 | Check PI / PO / AEX readiness after changes (upgrades, patches, notes) | = | HEC Excluded Tasks | |
| 613 | TO_PI_2.1.25 | Configure the required system connections to partner systems | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 614 | TO_PI_2.1.26 | Transport management of PI objects | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|---------------|-------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 615 | | X8 - Enterprise Portal | = | | |
| 616 | | Operations | = | | |
| 617 | TO_EP_1.1.01 | Monitoring of application services for Portal, Unifiers, Unification Server, PCD, and CM | = | HEC Standard Services | HEC monitors application services only; customer responsible to monitor portal content. |
| 618 | TO_EP_1.1.03 | Maintain LDAP (Novell, ADS, iPlanet and others) | = | HEC Excluded Tasks | |
| 619 | TO_EP_1.1.04 | Analyze Portal System logs and revise failures occurred | = | HEC Standard Services | HEC has to inform customer of required assistance. |
| 620 | TO_EP_1.1.05 | System landscape maintenance, connection of external systems – e.g. SAP | = | Cloud Application Services ("CAS"). Can be performed by customer. | Port connection required. |
| 621 | TO_EP_1.1.07 | User mapping | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 622 | TO_EP_1.1.08 | Role/Channel/iPanel allocation | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 623 | TO_EP_1.1.09 | Content administration | = | HEC Excluded Tasks | |
| 624 | TO_EP_1.1.10 | Set-up and maintain Portal user master data | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 625 | TO_EP_1.1.11 | Lock and delete portal user master data | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 626 | TO_EP_1.1.12 | Release locked portal users | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 627 | TO_EP_1.1.13 | Define and change Customer specific portal authorization profiles | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 628 | TO_EP_1.1.14 | Administer Content Repository | = | HEC Excluded Tasks | |
| 629 | TO_EP_1.1.20 | Customize, upgrade POE including all components | = | HEC Excluded Tasks | Set J2EE passwords, configure Java port, add service packs. |
| 630 | TO_EP_1.1.22 | Upgrade of pages, roles, static html content | = | HEC Excluded Tasks | |
| 631 | TO_EP_1.1.23 | Maintenance of Java services | = | HEC Standard Services | Customer responsible to develop new Java services, and to customize existing java services. |
| 632 | | X9 - Sybase IQ (used as data persistency for NLS or 3rd party archiving solutions) | = | | |
| 633 | | Database Installation/Configuration | = | | |
| 634 | TO_SIQ_1.1.01 | Checking/preparing system requirements (BW Release, SAP Notes, Source/target setup) | = | HEC Excluded Tasks | |
| 635 | TO_SIQ_1.1.03 | Initial configuration / parameter settings | = | HEC Standard Services | |
| 636 | TO_SIQ_1.1.06 | Initialize connection between BW/NLS and Sybase IQ | = | HEC Standard Services | HEC will perform required setup. Customer must configure the NLS connection from the BW side. |
| 637 | | Database Operations | = | | |
| 638 | TO_SIQ_1.2.02 | Database capacity management | = | HEC Standard Services | |
| 639 | TO_SIQ_1.2.03 | Reorg/Statistic update | = | HEC Standard Services | |
| 640 | TO_SIQ_1.2.04 | dbcc (database consistency check) | = | HEC Standard Services | |
| 641 | TO_SIQ_1.2.05 | Troubleshooting of technical database issues | = | HEC Standard Services | |
| 642 | TO_SIQ_1.2.06 | Setup backup | = | HEC Standard Services | |
| 643 | TO_SIQ_1.2.07 | Restore backup | = | HEC Standard Services | |
| 644 | TO_SIQ_1.2.08 | Monitor database connection | = | HEC Standard Services | Customer must check connection from BW side. |
| 645 | | Application | = | | |
| 646 | TO_SIQ_1.4.01 | Create/schedule/restore data archiving requests | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 647 | TO_SIQ_1.4.02 | Query handling | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 648 | TO_SIQ_1.4.03 | Installing partner add-ons in backend systems | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|---------------|---------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 649 | TO_SIQ_1.5.01 | Server provisioning for the archiving solution server | = | HEC Optional Services | If partner solution requires extra server; refer to Server Provisioning section in this document for details. |
| 650 | TO_SIQ_1.4.04 | Installation of archiving partner software | = | Cloud Application Services ("CAS"). Can be performed by customer. | Customer must make sure, that they hold valid licenses to run the installed software in an environment such as the SAP HEC. |
| 651 | TO_SIQ_1.4.05 | Configuration of archiving partner software | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 652 | TO_SIQ_1.4.06 | Managed services for archiving partner software (issue handling) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 653 | | SAP Information Lifecycle Management (ILM) for Sybase IQ | = | | |
| 654 | TO_SIQ_1.6.01 | Check and prepare system requirements (Sizing, SAP Notes) | = | HEC Excluded Tasks | |
| 655 | TO_SIQ_1.6.02 | Activate of ILM Store in NetWeaver | = | HEC Standard Services | |
| 656 | TO_SIQ_1.6.03 | Set parameters in SAP IQ for ILM Store | = | HEC Standard Services | |
| 657 | TO_SIQ_1.6.05 | Setup ILM Store Authorizations | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 658 | TO_SIQ_1.6.06 | Integrate ILM Store to Archiving Process | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 659 | TO_SIQ_1.6.07 | Configure of ArchiveLink connection to ILM Store | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 660 | TO_SIQ_1.6.08 | Configure of Storage Connections | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 661 | TO_SIQ_1.6.09 | Check ICM Parameters | = | HEC Standard Services | |
| 662 | TO_SIQ_1.6.10 | Setup Clients and Origins in the ILM Store | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 663 | TO_SIQ_1.6.11 | Integration to OpenText Storage | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 664 | TO_SIQ_1.6.12 | Integration to other ILM Certified Storage | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 665 | TO_SIQ_1.6.13 | Data destruction and data compliance | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 666 | TO_SIQ_1.6.14 | License generation and deployment for Live Systems | = | HEC Standard Services | |
| 667 | | X11 - SAP Cloud Connector | = | | |
| 668 | | Installation and Configuration | = | | |
| 669 | TO_SCC_1.1.02 | Configuration - Enable outbound connection via LoadBalancer to connect with SAP Cloud Platform (SCP) | = | HEC Standard Services | |
| 670 | TO_SCC_1.1.03 | Configuration - Establish connection to customer's cloud account | = | HEC Standard Services | |
| 671 | TO_SCC_1.1.04 | Configuration - On-premise resources (OData services) customer wants to use in SAP Cloud Platform (SCP) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 672 | TO_SCC_1.1.05 | Monitoring - SCC service monitoring (Linux / Windows Services) | = | Cloud Application Services ("CAS"). Can be performed by customer. | 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. |
| 673 | TO_SCC_1.1.06 | Define and provide two user groups (Cloud Portal Admin, Cloud Portal User) | = | HEC Standard Services | |
| 674 | TO_SCC_1.1.07 | Tunnel Availability monitoring | = | HEC Standard Services | For version 2.12 and higher only. HEC can monitor tunnel availability for informational purposes only but is not covered under the Service Level Agreement. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 675 | | X12 - SAP Cloud Platform Integration - Data Services Agent (CPI-DS) (Formerly HCI-DS) | = | | |
| 676 | | Installation and Configuration | = | | |
| 677 | TO_CPIDS_1.1.01 | Installation of SAP CPI - Data Service agent | = | HEC Standard Services | |
| 678 | TO_CPIDS_1.1.02 | Configuration - Enable outbound connection via LoadBalancer to connect with CPI | = | HEC Standard Services | |
| 679 | TO_CPIDS_1.1.03 | Configuration - Establish connection to customer's cloud account | = | HEC Standard Services | Need access to CPI portal or HEC will request the configuration file from customer. Configuration performed at OS level. HEC will verify that agent status is green in CPI portal. |
| 680 | TO_CPIDS_1.1.04 | Configuration - Business backend preparation steps for CPI consumption | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 681 | | Monitoring Setup | = | | |
| 682 | TO_CPIDS_1.2.01 | Monitoring setup for process level availability - Nagios | = | HEC Standard Services | |
| 683 | | Data Handling and Data Services | = | | |
| 684 | TO_CPIDS_1.3.01 | Migrating or replicating data between data stores | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 685 | | X13 - SAP Fiori | = | | |
| 686 | | Installation and Configuration | = | | |
| 687 | TO_FIORI_1.1.01 | Installation of application specific packages in respective SAP Systems | = | HEC Standard Services | Initial setup in HEC. |
| 688 | TO_FIORI_1.1.03 | Configuration - Web Dispatcher Fiori App redirects | = | HEC 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. |
| 689 | TO_FIORI_1.1.05 | Configuration - HANA XS Engine Web Dispatcher | = | Cloud Application Services ("CAS"). Can be performed by customer. | 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. |
| 690 | TO_FIORI_1.1.09 | Initial enablement of Fiori launchpad including all required connectivity setup | = | HEC Standard Services | Limited to one example Fiori app per S/4HANA system according to requested application type; SAP Standard procedure includes Fiori launchpad enablement for one client per S/4HANA system. |
| 691 | TO_FIORI_1.1.06 | Re-enable Fiori launchpad including all required connectivity setup | = | Cloud Application Services ("CAS"). Can be performed by customer. | Limited to one (1) example Fiori app per S/4HANA system according to requested application type; SAP Standard procedure includes Fiori launchpad enablement for one client per S/4HANA system. Fiori Launchpad will be made available over LoadBalancer, if exist and configured. |
| 692 | TO_FIORI_1.1.07 | Configuration - Fiori applications | = | HEC Excluded Tasks | In some situations HEC might be able to support the customer using a HEC Application Management service, however due to the large variety of possible scenarios this item has been generally excluded from the HEC service; customers should seek assistance via SAP Consulting. |
| 693 | 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 | = | Cloud Application Services ("CAS"). Can be performed by customer. | Access to customer client required. |
| 694 | | X15 - Web Dispatcher | = | | |
| 695 | | Web Dispatcher Operations | = | | |
| 696 | TO_WD_1.1.01 | Register/Remove Systems in Web Dispatcher and their options regarding SSL | = | HEC 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. |
| 697 | TO_WD_1.1.02 | General memory management definition | = | HEC Standard Services | |
| 698 | TO_WD_1.1.03 | General security parameter definition | = | HEC Standard Services | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|---------------|------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 699 | TO_WD_1.1.04 | General Configuration for Support SSL in Parameter File or PSE Maintenance Tool in Admintool (Handling HTTPS Requests) | = | HEC Standard Services | |
| 700 | TO_WD_1.1.05 | Communication with the message server / application server using SSL | = | HEC Standard Services | |
| 701 | TO_WD_1.1.06 | Modification of HTTP requests | = | HEC Standard Services | |
| 702 | TO_WD_1.1.07 | Setting up error handling | = | HEC Standard Services | |
| 703 | TO_WD_1.1.08 | Maintaining the authentication File | = | HEC Standard Services | |
| 704 | TO_WD_1.1.09 | Changes in client 000 of the backend systems related to Web Dispatcher (HTTPURLLOC) | = | HEC Standard Services | |
| 705 | TO_WD_1.1.10 | Log and trace strategy | = | HEC Standard Services | |
| 706 | TO_WD_1.1.11 | Encryption policy (protocols, ciphersuites, key length) | = | HEC Standard Services | |
| 707 | TO_WD_1.1.12 | Connection counts | = | HEC Standard Services | |
| 708 | TO_WD_1.1.13 | Metadata Exchange Using SSL | = | HEC Standard Services | |
| 709 | TO_WD_1.1.14 | Definition of port ranges | = | HEC Standard Services | |
| 710 | TO_WD_1.1.15 | LoadBalancer configuration for Web Dispatcher | = | HEC Standard Services | Configuration details (routing rules, redirection information, backend system details etc.) must be provided by customer. HEC will be update the Load Balancer and Web Dispatcher accordingly. |
| 711 | TO_WD_1.1.16 | DNS Changes for Web Dispatcher Service | = | HEC Excluded Tasks | There are no options to have personalized DNS |
| 712 | | X16 - LoadBalancer | = | | |
| 713 | | LoadBalancer operation | = | | |
| 714 | TO_LRP_1.1.01 | Setup LoadBalancer instance | = | HEC Standard Services | |
| 715 | TO_LRP_1.1.02 | Register/Remove Systems in LoadBalancer | = | HEC Standard Services | |
| 716 | TO_LRP_1.1.03 | Configure load distribution to application servers | = | HEC Standard Services | |
| 717 | TO_LRP_1.1.04 | Provide external IP for Internet facing scenarios | = | HEC Standard Services | |
| 718 | TO_LRP_1.1.05 | Configure SSL offloading (Encryption) | = | HEC Standard Services | |
| 719 | TO_LRP_1.1.07 | Perform DNS handling for customer own Domain | = | HEC Excluded Tasks | |
| 720 | TO_LRP_1.1.08 | Provide X.509 certificate for customer domain to enable SSL | = | HEC Excluded Tasks | |
| 721 | TO_LRP_1.1.09 | Provide X.509 certificate for SAP own URL like *.hec.ondemand.com domain | = | HEC Standard Services | |
| 722 | TO_LRP_1.1.10 | Install customer X.509 certificate | = | HEC Standard Services | |
| 723 | TO_LRP_1.1.11 | Configure Web Application Firewall | = | HEC Standard Services | |
| 724 | TO_LRP_1.1.12 | Configure persistence handling | = | HEC Standard Services | |
| 725 | TO_LRP_1.1.14 | Configure health checks | = | HEC Standard Services | |
| 726 | TO_LRP_1.1.15 | Configure URL/IP based black and white list filtering | = | HEC Standard Services | |
| 727 | TO_LRP_1.1.16 | Configure sorry page function | = | HEC Standard Services | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|---------------|--------------------------------------------------|---|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 728 | TO_LRP_1.1.17 | Configure outgoing connections to Internet | = | HEC Standard Services | |
| 729 | TO_LRP_1.1.18 | Enable access from HEC to internet/public domain | = | HEC Optional Services | Supported using outbound LoadBalancer. Used to integrate HEC with other clouds or customer public services etc. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|--------------|--------------------------------------------------------------------|---|-------------------------------------------------------------------|---------------------------------------------|
| 730 | | X17 - OpenText Solutions | = | | |
| 731 | | Data archiving and document access: ERP + archive + storage | = | | |
| 732 | | ERP part | = | | |
| 733 | TO_OT_1.1.01 | Setup connection to archive server | = | HEC Standard Services | |
| 734 | TO_OT_1.1.02 | Customizing of archiving solution | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 735 | | Archive server part (content repository) | = | | |
| 736 | TO_OT_1.2.01 | Archive server DB installation | = | HEC Standard Services | |
| 737 | TO_OT_1.2.02 | Archive server installation | = | HEC Standard Services | |
| 738 | TO_OT_1.2.03 | Configuration of the archive storage | = | HEC Standard Services | |
| 739 | TO_OT_1.2.04 | Attaching storage to the Archive server | = | HEC Standard Services | |
| 740 | TO_OT_1.2.05 | Configuration of the archive server | = | HEC Standard Services | |
| 741 | | Migration of existing archives to HEC | = | | |
| 742 | TO_OT_1.6.01 | Data migration of archived data of OpenText archive system | = | Cloud Application Services ("CAS"). Can be performed by customer. | Consulting project required. |
| 743 | TO_OT_1.6.02 | Data migration of archived data of Non-OpenText archive system | = | Cloud Application Services ("CAS"). Can be performed by customer. | Consulting project required. |
| 744 | | Admin Tasks Archive Server | = | | |
| 745 | TO_OT_1.7.01 | Standard backup (storage handling) | = | HEC Standard Services | |
| 746 | TO_OT_1.7.02 | Standard monitoring | = | HEC Standard Services | |
| 747 | TO_OT_1.7.03 | Administrative tasks (create new archives) | = | HEC Standard Services | On customer request. |
| 748 | | Archiving: application management | = | | |
| 749 | TO_OT_1.8.01 | Authorization concept | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 750 | TO_OT_1.8.02 | Archiving concept | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 751 | TO_OT_1.8.03 | Archiving of data | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 752 | TO_OT_1.8.04 | Deletion of data | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 753 | | Scanning and Pipeline | = | | |
| 754 | TO_OT_1.3.01 | Installation on premise (scan client) | = | HEC Excluded Tasks | |
| 755 | TO_OT_1.3.02 | Scan Configuration | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 756 | TO_OT_1.3.03 | Pipeline installation on premise | = | HEC Excluded Tasks | |
| 757 | TO_OT_1.3.04 | Pipeline configuration on premise | = | HEC Excluded Tasks | |
| 758 | | VIM: SAP Component Installation in SAP ERP | = | In case VIM is part of solution scope in HEC | |
| 759 | TO_OT_1.4.01 | Add-On installation for VIM | = | HEC Standard Services | |
| 760 | TO_OT_1.4.02 | SAP Business Workflow Engine enabling (Basic configuration) | = | HEC Standard Services | |
| 761 | TO_OT_1.4.03 | Business Configuration | = | HEC Excluded Tasks | RDS available. |
| 762 | TO_OT_1.4.04 | ArchiveLink customizing | = | HEC Standard Services | |
| 763 | | VIM: Invoice Capture Center (ICC) | = | In case VIM is part of solution scope in HEC | |
| 764 | TO_OT_1.5.01 | Installation VIM server | = | HEC Standard Services | |
| 765 | TO_OT_1.5.02 | Basic configuration and connectivity | = | HEC Standard Services | |
| 766 | TO_OT_1.5.03 | Basic business configuration | = | HEC Excluded Tasks | RDS available. |
| 767 | TO_OT_1.5.04 | Customer specific enhancements | = | HEC Excluded Tasks | |
| 768 | | StreamServe | = | In case StreamServe is part of solution scope in HEC | |
| 769 | TO_OT_1.9.01 | Installation of StreamServe | = | HEC Standard Services | To be done on OS-level. |
| 770 | TO_OT_1.9.02 | Setup connection to StreamServe server | = | HEC Standard Services | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 771 | TO_OT_1.9.03 | StreamServe base configuration | = | HEC Standard Services | Customer to provide FQDN of OpenText Server. |
| 772 | TO_OT_1.9.04 | Configure output management | = | Cloud Application Services ("CAS"). Can be performed by customer. | Real output management; logical output management; output device; RFC destination |
| 773 | TO_OT_1.9.05 | Application specific configuration | = | HEC Excluded Tasks | e.g. Adjust print forms, BAPI functions, etc. |
| 774 | | Cloud Editions | = | | |
| 775 | | SAP S/4HANA Common Tasks | = | | |
| 776 | TO_OT_1.10.1 | Install OpenText Cloud Edition Add-On | = | HEC Standard Services | ADA, VIM, and xECM Add-On covered |
| 777 | TO_OT_1.10.2 | Activate/Maintain ICF nodes required for Apps to be enabled/updated | = | HEC Standard Services | |
| 778 | TO_OT_1.10.3 | Activate/Maintain OData Services required for Apps to be enabled/updated | = | HEC Standard Services | |
| 779 | | Vendor Invoice Management for SAP Solutions (VIM) | = | | |
| 780 | TO_OT_1.11.1 | Establish/Maintain secure connection to OpenText Core Capture for SAP Solutions (IES Cloud)/OT2 | = | HEC Standard Services | Create and maintain connections from S/4HANA SM59. Client ID and secret password from Admin Center need to be provided to HEC |
| 781 | | Extended ECM for SAP Solutions (xECM) | = | | |
| 782 | TO_OT_1.12.1 | Establish/Maintain secure connection to OpenText Cloud (OTK) | = | HEC Standard Services | Create and maintain connections from S/4HANA SM59, STRUST and in xECM's IMG hierarchy "Create HTTP Connections" |
| 783 | | Archiving and Document Access for SAP Solutions (ADA) | = | | |
| 784 | | OpenText Core Archive Connector | = | | |
| 785 | | Operations | = | | |
| 786 | TO_OT_1.13.1 | Install OpenText Core Archive Connector and Document Pipelines | = | HEC Standard Services | Application installation only |
| 787 | TO_OT_1.13.2 | Establish/Maintain secure connection to OpenText Core Archive for SAP Solutions (ADA Cloud)/OT2 | = | HEC Standard Services | Initial configuration and customer tenant registration |
| 788 | TO_OT_1.13.3 | Add/Maintain SAP S/4HANA systems connection | = | HEC Standard Services | |
| 789 | TO_OT_1.13.4 | Administration of Collections and Data Sources | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 790 | TO_OT_1.13.5 | Configure scan host and profile | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 791 | TO_OT_1.13.6 | Configure/Maintain file archive job | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 792 | TO_OT_1.13.7 | Maintain Core Archive Connector setting | = | HEC Standard Services | Activity includes replacing/generating certificate and private key |
| 793 | TO_OT_1.13.8 | User Administration | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 794 | | Software Lifecycle Management | = | | |
| 795 | 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) | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 796 | | X18 - SAP Information Steward | = | | |
| 797 | | Operations | = | | |
| 798 | TO_IS_1.1.02 | Adding additional IS job servers for load balancing on existing infrastructure. | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Adding additional server on existing infrastructure. A Change Request (CR) is required if additional infrastructure needs to be deployed. |
| 799 | TO_IS_1.1.13 | Adding additional IS job servers for load balancing on new infrastructure | = | HEC Optional Services | Adding additional server on new infrastructure. A Change Request (CR) is required. |
| 800 | TO_IS_1.1.03 | User and access management | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 801 | TO_IS_1.1.04 | Create and manage IS application jobs | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 802 | TO_IS_1.1.05 | Executing Information Steward utilities | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 803 | TO_IS_1.1.06 | Data Insight, Metadata, Cleansing Package and Match Review administration | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 804 | TO_IS_1.1.08 | IS repository and file system backup | = | HEC Standard Services | |
| 805 | TO_IS_1.1.09 | IS job server and services monitoring | = | HEC Standard Services | |
| 806 | TO_IS_1.1.10 | IS repository management | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 807 | TO_IS_1.1.11 | Troubleshooting issues with IS jobs and utilities (Data Insight, Rule Tasks, Metadata Management, Data Cleansing) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 808 | TO_IS_1.1.12 | Execute performance tuning for Data Insight, Data Cleansing, Metadata Management, Metapedia and Match Review | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 809 | | X19 - SAP Policy Management | = | This section represents an extension of the HEC standard service as described in the HEC Roles & Responsibilities. It applies only to customers using SAP Policy Management in HEC in combination with the full managed service including the components pm.msg and TomatosX. | |
| 810 | | TomatosX for Policy Management | = | | |
| 811 | TO_PM_1.1.01 | Installation of the solution | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 812 | TO_PM_1.1.02 | Technical configuration (installation post-processing) of installed systems. | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 813 | TO_PM_1.1.03 | Configuration or Integration of TomatosX system with other SAP systems. (TA SM59) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 814 | TO_PM_1.1.05 | Application configuration (post-installation configuration) of installed systems | = | HEC Excluded Tasks | |
| 815 | TO_PM_1.1.06 | Application troubleshooting | = | HEC Excluded Tasks | |
| 816 | | MSG.PM designer & CAIMAN for Policy Management | = | | |
| 817 | TO_PM_2.1.01 | Installation of the solution | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | MSG.PM designer and CAIMAN can only be installed on the windows platform. |
| 818 | TO_PM_2.1.02 | Technical configuration (installation post-processing) of installed systems. | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 819 | TO_PM_2.1.08 | Technical integration of system with other systems and applications | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 820 | TO_PM_2.1.05 | Application configuration (post-installation configuration) of installed systems | = | HEC Excluded Tasks | |
| 821 | TO_PM_2.1.06 | Application troubleshooting | = | HEC Excluded Tasks | |
| 822 | TO_PM_2.1.07 | Installation of additional client tools | = | HEC Excluded Tasks | |
| 823 | | Security Management | = | | |
| 824 | TO_PM_3.1.1 | Administration of customer users (e.g. user creation, change, deletion, maintenance of user profiles, roles, authorizations, master data and passwords) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 825 | | X20 - Celonis CPM | = | | |
| 826 | | Celonis CPM | = | | |
| 827 | TO_CEL_1.1.02 | Creation Java KeyStore | = | HEC Standard Services | |
| 828 | TO_CEL_1.1.03 | Configuring authorized SQL queries | = | HEC Excluded Tasks | HEC will update the respective file on OS Level. |
| 829 | TO_CEL_1.1.04 | Configure audit parameters and password rules | = | HEC Standard Services | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|---------------|-------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 830 | TO_CEL_1.1.05 | Request logging trace for user | = | HEC Standard Services | |
| 831 | TO_CEL_1.1.06 | Transport Export/Import | = | HEC Excluded Tasks | |
| 832 | TO_CEL_1.1.07 | General Administration of users, groups and authorizations | = | HEC Excluded Tasks | |
| 833 | TO_CEL_1.1.08 | Change system settings on application side | = | HEC Excluded Tasks | |
| 834 | TO_CEL_1.1.09 | Backup/Restore H2 Database | = | HEC Standard Services | |
| 835 | | X21 - SAP Identity Management IDM | = | | |
| 836 | TO_IDM_1.0.01 | Assist customer with IDM related tasks that require access to operating system | = | HEC Standard Services | |
| 837 | TO_IDM_1.0.02 | Install IDM dispatchers as part of their initial HEC installation | = | HEC Standard Services | |
| 838 | TO_IDM_1.0.03 | Connect IDM UI to IDM system | = | HEC Standard Services | SSL configuration is not covered by this task. |
| 839 | | X22 - SAP Financial Consolidation (FC) | = | | |
| 840 | | Administration of Data Sources | = | | |
| 841 | TO_FC_1.1.01 | Starting/Stopping/Setting Administrator Password and activity views for Datasources | = | HEC Standard Services | |
| 842 | TO_FC_1.1.02 | Adding Webservices | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 843 | TO_FC_1.1.03 | Adding FC Application Server/Webserver on existing infrastructure | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 844 | TO_FC_1.1.15 | Adding FC Application Server/Webserver on new infrastructure | = | HEC Optional Services | |
| 845 | TO_FC_1.1.04 | Migrating and filtering data source | = | HEC Excluded Tasks | |
| 846 | TO_FC_1.1.05 | Installing software configuration | = | HEC Excluded Tasks | |
| 847 | TO_FC_1.1.06 | Sending/Broadcasting messages to End-users | = | HEC Excluded Tasks | |
| 848 | TO_FC_1.1.07 | Defining log configuration for application servers | = | HEC Excluded Tasks | |
| 849 | TO_FC_1.1.08 | Defining commands available for machines and instances | = | HEC Excluded Tasks | |
| 850 | TO_FC_1.1.09 | Activation/Deactivation Machine in the FC Admin console | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 851 | TO_FC_1.1.10 | Starting/Stopping Instances in the FC Admin console | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 852 | TO_FC_1.1.11 | Creating scheduled tasks for starting and stopping servers | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 853 | TO_FC_1.1.12 | Create/Delete Data Source(s) | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Requires actions at OS Level. |
| 854 | TO_FC_1.1.13 | Create FC transport folder | = | HEC Standard Services | |
| 855 | TO_FC_1.1.14 | Restart FC platform periodically | = | HEC Standard Services | |
| 856 | | Monitoring | = | | |
| 857 | TO_FC_1.2.04 | Monitoring one FC application URL per SID | = | HEC Standard Services | Limited to one URL per SID. Customer needs to provide URL to be monitored. |
| 858 | TO_FC_1.2.03 | Monitoring of further FC application URLs | = | Cloud Application Services ("CAS"). Can be performed by customer. | Customer needs to provide URL to be monitored. |
| 859 | | Administration of HANA Databases | = | | |
| 860 | TO_FC_1.3.01 | Prerequisites for creating SAP HANA Modeling Views with Cube Designer | = | HEC Excluded Tasks | Customer require access to HANA Studio and require HANA Customer Administration authorization. |
| 861 | TO_FC_1.3.02 | Deleting rights created during Cube Deployments | = | HEC Excluded Tasks | Customer require access to HANA Studio and require HANA Customer Administration authorization. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 862 | | Configuring SAP Financial Consolidation Web Site | = | | |
| 863 | TO_FC_1.4.01 | Reconnecting Automatically | = | HEC Standard Services | |
| 864 | TO_FC_1.4.02 | Activating the SAP Financial Consolidation Web Technical Log | = | HEC Standard Services | |
| 865 | TO_FC_1.4.03 | Supporting long-term HTTP sessions with firewalls | = | HEC Standard Services | |
| 866 | TO_FC_1.4.04 | Publishing documents via a URL | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 867 | TO_FC_1.4.05 | Configuring HTTPS | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 868 | TO_FC_1.4.06 | Customizing the SAP Financial Consolidation Web Site Home page | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 869 | | Configuring SAP Financial Consolidation Web HTML5 Site | = | | |
| 870 | TO_FC_1.5.01 | Configuring/Customizing SAP Financial Consolidation Web HTML5 site advanced settings | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 871 | | Archiving Tool | = | | |
| 872 | TO_FC_1.6.01 | Installing and accessing the Archiving Tool | = | HEC Standard Services | |
| 873 | TO_FC_1.6.02 | Execute archiving process | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Just possible using AMS/SAP Consulting because require access to OS Level. |
| 874 | | Installing and Configuring the SAP NetWeaver BW Server to deploy Infocubes with SAP Financial Consolidation Cube Designer | = | | |
| 875 | TO_FC_1.8.01 | Installing the FPM Basis component on the SAP NetWeaver BW server | = | HEC Standard Services | |
| 876 | TO_FC_1.8.02 | Creating BW NetWeaver Roles to deploy Infocubes with Cube Designer | = | HEC Excluded Tasks | |
| 877 | TO_FC_1.8.03 | Installing SAP EPM Solutions Connection Manager on the BOE platform | = | HEC Standard Services | |
| 878 | TO_FC_1.8.04 | Configuring the Central Management Console for SAP Cube Designer | = | HEC Excluded Tasks | |
| 879 | TO_FC_1.8.05 | Configuring the Central Management Server for a distributed installation | = | HEC Excluded Tasks | |
| 880 | TO_FC_1.8.06 | Configuring reverse proxy | = | HEC Standard Services | |
| 881 | TO_FC_1.8.07 | Creating an EPM Connection for SAP Financial Consolidation with NetWeaver BW Cubes or SAP PCM or SAP SSM or SAP HANA | = | HEC Excluded Tasks | |
| 882 | | Financial Information Management | = | | |
| 883 | TO_FC_1.9.01 | Configuring the number of lines in a Flat File Preview | = | HEC Standard Services | |
| 884 | TO_FC_1.9.02 | Configuring Time-out Parameters | = | HEC Standard Services | |
| 885 | | X23 - SAP Mobile Platform (SMP) | = | | |
| 886 | | Implementation | = | | |
| 887 | TO_MP_1.1.01 | Installation of SMP Application Node(s) - Greenfield | = | HEC Standard Services | |
| 888 | TO_MP_1.1.02 | Installation of Additional SMP Application Node(s) - Brownfield | = | HEC Optional Services | |
| 889 | TO_MP_1.1.03 | Connection to backend System | = | HEC Standard Services | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|---------------------------------------------|
| 890 | TO_MP_1.1.04 | Securing Application Platform | = | HEC Excluded Tasks | |
| 891 | TO_MP_1.1.05 | Updating DB connection settings including DB connection passwords | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 892 | | Operations | = | | |
| 893 | TO_MP_1.2.01 | SMP Mobile/Agentry/Application Administration -Deploying Application -deleting Applications -Managing and Monitoring Application -Provisioning Application | = | HEC Excluded Tasks | |
| 894 | TO_MP_1.2.02 | Starting / Stopping SMP Application Server | = | HEC Standard Services | |
| 895 | TO_MP_1.2.03 | SMP Server availability and monitoring | = | HEC Standard Services | |
| 896 | TO_MP_1.2.04 | Monitoring heap memory | = | HEC Excluded Tasks | |
| 897 | | X25 - BPA by Redwood | = | | |
| 898 | | Operations | = | | |
| 899 | TO_BP_1.1.01 | Technical installation | = | HEC Standard Services | |
| 900 | TO_BP_1.1.03 | License deployment | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 901 | TO_BP_1.1.05 | Connect the central SAP BPA server system to remote systems within HEC | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 902 | TO_BP_1.1.07 | Monitoring of central BPA system | = | HEC Standard Services | |
| 903 | TO_BP_1.1.08 | Job monitoring | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 904 | TO_BP_1.1.09 | User and role management | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 905 | TO_BP_1.1.12 | Initial job scheduling Setup | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 906 | TO_BP_1.1.13 | Modification of scheduling setup | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 907 | TO_BP_1.1.14 | Re-Scheduling of jobs to remote system | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 908 | TO_BP_1.1.15 | Defining monitoring framework for jobs triggered via SAP BPA | = | Cloud Application Services ("CAS"). Can be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|--------------|-------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 909 | | X28 - GK Software | = | | |
| 910 | | Setup and configuration | = | | |
| 911 | TO_GK_1.1.01 | Setup and manage GK Software directories | = | HEC Standard Services | |
| 912 | TO_GK_1.1.02 | Create directory for master data file upload (if not already available) | = | HEC Standard Services | |
| 913 | TO_GK_1.1.03 | Assist in copying various files related to GK software configuration to file system directories | = | HEC Standard Services | |
| 914 | TO_GK_1.1.04 | Setup of dynamic takeovers in the structures | = | HEC Excluded Tasks | |
| 915 | TO_GK_1.1.05 | Setup of structure level overwrites | = | HEC Excluded Tasks | |
| 916 | TO_GK_1.1.06 | Setup NetWeaver Config tool directory structure | = | HEC Standard Services | |
| 917 | TO_GK_1.1.07 | Change language after installation | = | HEC Standard Services | |
| 918 | TO_GK_1.1.08 | Setup system level overwrite (system types) | = | HEC Excluded Tasks | |
| 919 | TO_GK_1.1.09 | Configure customer specific organizational structure | = | HEC Excluded Tasks | |
| 920 | TO_GK_1.1.10 | Configure basic Store Manager node | = | HEC Standard Services | |
| 921 | TO_GK_1.1.11 | Install store templates | = | HEC Excluded Tasks | HEC to provide share to copy files on to the OS level. |
| 922 | TO_GK_1.1.12 | Import of store templates into Store Manager | = | HEC Excluded Tasks | |
| 923 | TO_GK_1.1.13 | Assign template to the main Store Manager structure | = | HEC Excluded Tasks | |
| 924 | TO_GK_1.1.14 | Import config into Hybrid Infoserver | = | HEC Excluded Tasks | |
| 925 | TO_GK_1.1.15 | Configure HANA JDBC datasource connection pooling | = | HEC Standard Services | |
| 926 | TO_GK_1.1.16 | Deploy EPA files into SAP NetWeaver Portal | = | HEC Standard Services | |
| 927 | TO_GK_1.1.17 | Create customer store structure | = | HEC Excluded Tasks | |
| 928 | TO_GK_1.1.18 | Configure GK Store Manager | = | HEC Excluded Tasks | |
| 929 | TO_GK_1.1.19 | Import Global Configuration for Store Manager (data container) | = | HEC Excluded Tasks | |
| 930 | TO_GK_1.1.20 | Configure GK Software Store Manager for stores or country level overrides | = | HEC Excluded Tasks | Example: configuration of the POS Server it points to or LPS. |
| 931 | TO_GK_1.1.21 | Import master data | = | HEC Excluded Tasks | |
| 932 | TO_GK_1.1.22 | Configure GK ECON for Data import (defining the xml file for IDoc imports) | = | HEC Excluded Tasks | |
| 933 | TO_GK_1.1.23 | Create and customize Reference Store (countries, district, stores) | = | HEC Excluded Tasks | |
| 934 | TO_GK_1.1.24 | Create SAP NetWeaver datasource | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 935 | TO_GK_1.1.25 | Configure and assign data containers (Taxes, work groups, reasons of transactions etc.) | = | HEC Excluded Tasks | |
| 936 | TO_GK_1.1.26 | Configure SDC data containers (assign variants etc.) | = | HEC Excluded Tasks | |
| 937 | TO_GK_1.1.27 | Import templates and activation manually (e.g. EC config template, heartbeat monitor) | = | HEC Excluded Tasks | |
| 938 | TO_GK_1.1.28 | Configure reference customer organizational structure (during installation) | = | HEC Standard Services | Only the basic structure as per the setup procedures. The detailed functional structures is Customer / Project team responsibility. |
| 939 | | Operations | = | | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 940 | TO_GK_1.2.01 | Assist customers with tasks in their area of responsibility, if OS access is required | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | 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 HEC. The HEC 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. |
| 941 | TO_GK_1.2.02 | Configure Application level JDBC Datasources | = | Cloud Application Services ("CAS"). Can be performed by customer. | 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. |
| 942 | TO_GK_1.2.03 | Modification of HTTP requests | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 943 | TO_GK_1.2.04 | Change application server parameters after handover | = | Cloud Application Services ("CAS"). Can be performed by customer. | Modifying standard settings to changing customer requirements. |
| 944 | TO_GK_1.2.05 | Manage communication with the message server / application server using SSL | = | HEC Standard Services | |
| 945 | TO_GK_1.2.06 | Definition of port ranges | = | HEC Standard Services | |
| 946 | TO_GK_1.2.07 | GK Host Configuration via Portal Administration | = | HEC Standard Services | |
| 947 | TO_GK_1.2.08 | Update by CDPL tool (Central Deployment update for Store components) | = | HEC Excluded Tasks | |
| 948 | TO_GK_1.2.09 | Rebuild client | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | OS access required to run the scripts. |
| 949 | TO_GK_1.2.10 | GK Software user management | = | HEC Excluded Tasks | |
| 950 | TO_GK_1.2.11 | Map GK software users to SAP NetWeaver user management | = | HEC Excluded Tasks | |
| 951 | TO_GK_1.2.12 | Backup and Restore - standard HANA & NW | = | HEC Standard Services | |
| 952 | TO_GK_1.2.13 | Backup and Restore - sync after DB restore | = | HEC Excluded Tasks | |
| 953 | TO_GK_1.2.14 | Synchronization of master data after database recovery | = | HEC Excluded Tasks | |
| 954 | TO_GK_1.2.15 | Clean up obsolete content data and templates | = | HEC Excluded Tasks | |
| 955 | TO_GK_1.2.16 | Define and implement log and trace strategy | = | HEC Standard Services | |
| 956 | TO_GK_1.2.17 | Monitor basic technical functions using HEC monitoring environment | = | HEC Standard Services | |
| 957 | TO_GK_1.2.18 | Monitor GK application using Enterprise Cockpit | = | HEC Excluded Tasks | |
| 958 | TO_GK_1.2.19 | GK Business Process Monitoring | = | HEC Excluded Tasks | |
| 959 | TO_GK_1.2.20 | Monitoring solution performance (node level performance using GK Performance Monitor) | = | HEC Excluded Tasks | HEC to support copying the files into working directories. |
| 960 | TO_GK_1.2.21 | Analyze database using GK_PMON, GK_STATS | = | HEC Excluded Tasks | |
| 961 | | Software Lifecycle Management for GK | = | | |
| 962 | TO_GK_1.3.01 | Implement updates to the managed GK solution (software packages commonly available via the SAP Service Marketplace) | = | HEC Standard Services | |
| 963 | TO_GK_1.3.02 | Implement customer specific updates to the managed GK solution (software packages <u>not</u> commonly available via the SAP Service Marketplace) | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 964 | TO_GK_1.3.03 | Upgrade of managed GK solution to the next higher major software version | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 965 | | X29 - SAP TREX | = | | |
| 966 | | TREX operations | = | | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|------------|----------------|----------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 967 | TO_TREX_1.1.14 | Post-Installation Configuration and Connection TREX with an Application (Java or ABAP) | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | This includes activities Post-Installation Configuration and Connection between TREX and an Application (Java or ABAP) as is described in Official Product documentation (help.sap.com) |
| 968 | TO_TREX_1.1.15 | Administer TREX indices | = | HEC Excluded Tasks | |
| 969 | TO_TREX_1.1.16 | Administer Taxonomies | = | HEC Excluded Tasks | |
| 970 | | X30 - SAP Predictive Analytics (SPA) | = | | |
| 971 | | SAP Predictive Analytics - Setup and Configuration | = | | |
| 972 | TO_SPA_1.1.01 | Install Predictive (Automated) Server | = | HEC Standard Services | |
| 973 | TO_SPA_1.1.03 | Install Predictive Factory | = | HEC Standard Services | |
| 974 | TO_SPA_1.1.04 | Install SAP HANA Automated Predictive Library | = | HEC Standard Services | |
| 975 | TO_SPA_1.1.05 | Predictive Analytics Client Install and Connectivity | = | HEC Standard Services | |
| 976 | TO_SPA_1.1.06 | Predictive Analytics - Data Source Setups for Automated Server | = | HEC Standard Services | Install and setup ODBC drivers for HANA as data source. Additional data sources setup will incur extra service charge. |
| 977 | TO_SPA_1.1.14 | Predictive Analytics - Data Source Setups for Automated Server (additional) | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Install and setup ODBC drivers for HANA as data source. Additional data sources setup will incur extra service charge. |
| 978 | TO_SPA_1.1.07 | Automated Analytics/Predictive Factory - Authentication setup and configuration | = | HEC Standard Services | |
| 979 | TO_SPA_1.1.08 | Automated Analytics/Predictive Factory - Authorization Setup | = | HEC Standard Services | |
| 980 | TO_SPA_1.1.09 | Automated Analytics/Predictive Factory - SSL/TLS Secure Communication | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 981 | TO_SPA_1.1.10 | Automated Analytics/Predictive Factory - Single Sign On (SSO) with Windows Active Directory | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 982 | TO_SPA_1.1.11 | Setting Up Modeling Servers in Predictive Factory | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 983 | TO_SPA_1.1.12 | Executing external commands/program from Predictive Factory | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 984 | TO_SPA_1.1.13 | Implement additional hosts setup for High Availability | = | HEC Optional Services | |
| 985 | | Other Services | = | | |
| 986 | TO_SPA_1.2.01 | Predictive Analytics Integrator Setup | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 987 | TO_SPA_1.2.02 | Setup and configure Predictive Analytics Models | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 988 | | X31 - SAP Solution Manager | = | | |
| 989 | | TREX operations | = | | |
| 990 | TO_SOLM_1.1.01 | Setup and configuration of ITSM | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 991 | | X33 - SAP Test Data Migration Server (TDMS) | = | | |
| 992 | | Installation and Configuration | = | | |
| 993 | TO_TDMS_1.1.01 | Setup of Control System (TDMS server) and setup of receiver system (target server) | = | HEC Standard Services | |
| 994 | TO_TDMS_1.1.02 | Patching of the sender systems (source system) | = | HEC Standard Services | |
| 995 | TO_TDMS_1.1.03 | TDMS initial configuration, client creation, setup RFC connections, setup authorizations, Shell Creation | = | HEC Standard Services | |
| 996 | TO_TDMS_1.1.04 | Setting scrambling data, customizing, using BPL modeler | = | HEC Excluded Tasks | |
| 997 | | X34 - SAP PowerDesigner | = | | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-------------|-------------------|----------------------------------------------------------------------|---|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 998 | | Operational Setup | = | | |
| 999 | TO_PWR_1.1.01 | Install components (Portal, Repo, Proxy) | = | HEC Standard Services | Install and setup SAP PowerDesigner repository including any support package and patch updates. SAP ASE database will be setup as repository server. Install and configure Apache Tomcat Server on portal server for remote web access. Install and setup SAP PowerDesigner admin server as staging server for initial deployment. Export/import of SAP PowerDesigner Web application files to portal server. |
| 1000 | TO_PWR_1.1.02 | Install Proxy | = | HEC Standard Services | Install and setup SAP PowerDesigner proxy server - will be installed on same server as SAP PowerDesigner admin server. This is an optional component. |
| 1001 | TO_PWR_1.1.03 | Setup and configuration | = | HEC Standard Services | Install and setup ODBC drivers for SAP HANA as data source. Additional data sources setup will incur extra service charge. Setup and configure authentication for portal and repository servers. Authorization setup - provision HEC specific user and roles for SAP PowerDesigner portal and repository Access. |
| 1002 | TO_PWR_1.1.04 | Portal Server - SSL/TLS Setup | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Setup secure communication through SSL/TLS configuration. |
| 1003 | TO_PWR_1.1.05 | Portal Server - Single Sign On (SSO) with Windows Active Directory | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 1004 | | X35 - bowbridge Anti-Virus for SAP Solutions | = | | |
| 1005 | | Installation and Configuration | = | | |
| 1006 | TO_BB_AV_1.1.01 | Verify files signature or comparing checksum | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Check that bowbridge software is original and unmodified. |
| 1007 | TO_BB_AV_1.1.02 | Install bowbridge software | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1008 | TO_BB_AV_1.1.03 | Configure application layer | = | HEC Excluded Tasks | |
| 1009 | TO_BB_AV_1.1.04 | Update bowbridge software | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Customer must inform HEC and provide software update. |
| 1010 | | X36 - SAP Billing and Revenue Innovation Management | = | | |
| 1011 | | SAP Convergent Charging | = | | |
| 1012 | | Installation and Configuration | = | | |
| 1013 | TO_BRIM_CC_1.1.01 | Install SAP Convergent Charging database | = | HEC Standard Services | |
| 1014 | TO_BRIM_CC_1.1.02 | Install SAP Convergent Charging core server | = | HEC Standard Services | |
| 1015 | TO_BRIM_CC_1.1.03 | Post Installation steps | = | HEC Standard Services | |
| 1016 | | Installation and Configuration | = | | |
| 1017 | TO_BRIM_CC_1.2.01 | Start/stop system | = | HEC Standard Services | |
| 1018 | TO_BRIM_CC_1.2.02 | Apply Updates | = | HEC Standard Services | |
| 1019 | TO_BRIM_CC_1.2.03 | Upgrade | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1020 | TO_BRIM_CC_1.2.04 | Monitoring | = | HEC Standard Services | |
| 1021 | | SAP Convergent Mediation by DigitalRoute | = | | |
| 1022 | | Installation and Configuration | = | | |
| 1023 | TO_BRIM_CM_1.1.01 | Install SAP Convergent Mediation Database | = | HEC Standard Services | |
| 1024 | TO_BRIM_CM_1.1.02 | Install SAP Convergent Mediation Control Zone & Execution Zone setup | = | HEC Standard Services | |
| 1025 | TO_BRIM_CM_1.1.03 | Post Installation steps | = | HEC Standard Services | |
| 1026 | | Operation | = | | |
| 1027 | TO_BRIM_CM_1.2.01 | Disaster Recovery procedures and testing for reprocessing of events | = | HEC Excluded Tasks | |
| 1028 | TO_BRIM_CM_1.2.02 | Deletion of collected files after checkpoint batch | = | HEC Excluded Tasks | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-------------|-------------------|-------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1029 | TO_BRIM_CM_1.2.03 | Push Data Records from customer sFTP server to HEC sFTP server | = | HEC Excluded Tasks | |
| 1030 | | X37 - SAP Manufacturing Integration and Intelligence | = | | |
| 1031 | | Implementation & Configuration | = | | |
| 1032 | TO_MII_1.1.01 | Setup Plant Connectivity (PCo) for SAP Overall Equipment Effectiveness (OEE) Functionality | = | HEC Excluded Tasks | |
| 1033 | TO_MII_1.1.02 | Setup ALE user | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1034 | TO_MII_1.1.03 | Establish ALE connection to customer's ERP system | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1035 | TO_MII_1.1.04 | Execute CTC Template for SAP Overall Equipment Effectiveness (OEE) Management: SAP NetWeaver | = | HEC Excluded Tasks | |
| 1036 | TO_MII_1.1.05 | Execute CTC Template for SAP Overall Equipment Effectiveness (OEE) Management: Integration Interfaces | = | HEC Excluded Tasks | |
| 1037 | TO_MII_1.1.06 | Configure SAP Overall Equipment Effectiveness Management | = | HEC Excluded Tasks | |
| 1038 | TO_MII_1.1.07 | Create XMII Users and perform Roles Assignments | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1039 | | X38 - SAP Manufacturing Execution | = | | |
| 1040 | | Operational Setup | = | | |
| 1041 | TO_ME_1.1.01 | Execute CTC Template for SAP NetWeaver Engine Configuration | = | HEC Standard Services | |
| 1042 | TO_ME_1.1.02 | Execute CTC Template for SAP Database Setup | = | HEC Standard Services | |
| 1043 | TO_ME_1.1.03 | Execute CTC Template for SAP ME Configuration | = | HEC Excluded Tasks | |
| 1044 | TO_ME_1.1.04 | Execute SAP ME Scripts | = | HEC Excluded Tasks | |
| 1045 | TO_ME_1.1.05 | Perform SAP ME and ERP Integration | = | HEC Excluded Tasks | |
| 1046 | TO_ME_1.1.06 | Install Adobe Document Services | = | HEC Optional Services | |
| 1047 | | X39 - R Integration | = | | |
| 1048 | | Operational Setup | = | | |
| 1049 | TO_RINT_1.1.02 | Install R Integration Components | = | HEC Standard Services | R, R Server, and dependent packages are installed independently from the SAP HANA database. |
| 1050 | TO_RINT_1.1.03 | Perform technical post-installation tasks | = | HEC Standard Services | Setup SAP HANA configuration for index and XS Engine parameters for R Integration. Setup R Server authentication and authorization. Provision HEC specific user and roles for R Integration. Configure and setup R Integration nodes for each tenant database including, service initialization, cockpit access, delivery units, and verification. |
| 1051 | TO_RINT_1.1.04 | R Integration - Additional hosts setup for High Availability (HA) | = | HEC Optional Services | Add and setup R Integration additional nodes. High Availability setup and configuration involves single or multi-tenant database setup including R Integration group setup. For R Integration LoadBalancer setup, check R&R Section "LoadBalancer". |
| 1052 | | X40 - SAP SQL Anywhere - Mobilink | = | | |
| 1053 | | Implementation & Configuration | = | | |
| 1054 | TO_SQLA_ML_1.1.01 | Install and activate SQLAnywhere Mobilink Services | = | HEC Standard Services | Install and setup 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. |
| 1055 | TO_SQLA_ML_1.1.02 | Perform technical post-installation tasks | = | HEC Standard Services | Activate Mobilink roles, privileges and object access for monitoring and operations. Provision HEC specific user and roles. Configure and setup Mobilink nodes for each SAP HANA tenant database including, service initialization, delivery units and verification. |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-------------|-------------------|-------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1056 | TO_SQLA_ML_1.1.03 | Mobilink - Single Sign On (SSO) Setup | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 1057 | TO_SQLA_ML_1.1.04 | Mobilink - Additional Host Setup for High Availability (HA) | = | HEC Optional Services | Add and configuring additional hosts for high availability setup. For multi-tenant setup, Mobilink nodes are added exclusively to each tenant database. For Mobilink LoadBalancer setup, check R&R Section "LoadBalancer". |
| 1058 | TO_SQLA_ML_1.1.05 | Setup and configure synchronization scripts | = | HEC Excluded Tasks | Configure synchronization script for upload and download of data between remote and consolidated databases. |
| 1059 | | X41 - SAP Analytics Cloud | = | | |
| 1060 | | SAP Analytics Cloud Tenant | = | | |
| 1061 | TO_SAC_1.1.01 | Establish connection between SAP Analytics Cloud and HEC managed system | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1062 | TO_SAC_1.1.02 | Setup Single Sign On (SSO) communication with Principle Propagation from SAP Analytics Cloud to SAP S/4HANA | = | HEC Excluded Tasks | Customer may engage SAP Consulting for services pertaining to SSO solutions for HEC. |
| 1063 | TO_SAC_1.1.03 | Creation or change of user/roles or SAP as Identity Provider | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1064 | | SAP Analytics Cloud Agent | = | | |
| 1065 | TO_SAC_1.2.01 | Install SAP Analytics Cloud Agent | = | HEC Standard Services | |
| 1066 | TO_SAC_1.2.02 | Configure SAP Analytics agent, Cloud Connector, Java Connector | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1067 | TO_SAC_1.2.03 | Configure SAP Analytics agent connection with other systems like SAP S/4HANA, ERP | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1068 | TO_SAC_1.2.04 | Configure SAP Analytics Cloud with SAP Analytics agent | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1069 | | SAP S/4HANA Tasks for SAP Analytics Cloud | = | | |
| 1070 | TO_SAC_1.3.01 | Configure STRUST for SSL settings | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1071 | TO_SAC_1.3.02 | Activate Embedded BW content (BEx queries etc.) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1072 | TO_SAC_1.3.03 | Enable INA for Analytics Cloud | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1073 | TO_SAC_1.3.04 | Enable CORS Analytics Cloud and edit white Listing | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1074 | | X42 - SAP Cloud Platform | = | | |
| 1075 | | Global Account & Subaccount(s) | = | | |
| 1076 | TO_SCP_1.1.01 | Create or change of subaccounts related to HEC landscape (DEV, QAS, PRD etc.) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1077 | TO_SCP_1.1.02 | Create or change of entitlements in the Global Account | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1078 | TO_SCP_1.1.03 | Activate Cloud Platform service(s) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1079 | TO_SCP_1.1.04 | Create or change of user/roles | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1080 | TO_SCP_1.1.05 | Create or change of connectivity destinations | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1081 | TO_SCP_1.1.06 | Manage of certificates (issue, import, export) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1082 | TO_SCP_1.1.07 | Create or change Custom Application Domains Settings | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1083 | | Identity Provider | = | | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-------------|---------------|--------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1084 | TO_SCP_1.2.01 | Configure Local Provider Settings | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1085 | TO_SCP_1.2.02 | Configure Trust Relationships and Federation Settings for external Identity Providers (e.g. Microsoft, Okta) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1086 | TO_SCP_1.2.03 | Configure Trust Relationships and Federation Settings for SAP Identity Authentication Tenant | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1087 | TO_SCP_1.2.04 | Configure Principle Propagation SAP Cloud Platform, SAP Cloud Connector and SAP S/4HANA | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1088 | TO_SCP_1.2.05 | Activate CERTRULE for the purpose of client based certificates | = | Cloud Application Services ("CAS"). Can be performed by customer. | If an existing SAP S/4HANA system is to be used for the integration. |
| 1089 | TO_SCP_1.2.06 | User Migration to Cloud Platform Identity Authentication Tenant | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1090 | | SAP S/4HANA Tasks for SAP Cloud Platform | = | | |
| 1091 | TO_SCP_1.3.01 | Configure STRUST for SSL settings | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1092 | TO_SCP_1.3.02 | Activate ICF nodes required for sample Apps to be enabled | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1093 | TO_SCP_1.3.03 | Activate OData Services required for sample Apps to be enabled | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1094 | TO_SCP_1.3.04 | Enterprise Search Enablement (ESH) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1095 | TO_SCP_1.3.05 | Create authorization role in backend system for OData processing | = | Cloud Application Services ("CAS"). Can be performed by customer. | For relevant sample Apps. |
| 1096 | TO_SCP_1.3.06 | Activate Embedded BW content for Analytical Fiori Apps | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1097 | TO_SCP_1.3.07 | Enable INA for Analytical SAP Fiori Apps | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1098 | TO_SAC_1.3.08 | Establish backend connectivity to SAP Cloud Platform Forms by Adobe | = | Cloud Application Services ("CAS"). Can be performed by customer. | Enables generation of print and interactive forms using Adobe Document Services (ADS); includes mandatory baseline configuration. |
| 1099 | | Portal | = | | |
| 1100 | TO_SCP_1.4.01 | Create or change SAP Fiori Launchpad sites (Site Directory & Site Settings) | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1101 | TO_SCP_1.4.02 | Create or change roles | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1102 | TO_SCP_1.4.03 | Create or change groups including role assignment | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1103 | TO_SCP_1.4.04 | Create or change catalogs including role assignment | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1104 | TO_SCP_1.4.05 | Enable SAP Fiori sample apps and perform required connectivity setup | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1105 | | X43 - SAP Forms by Adobe (Adobe Document Services/ADS) | = | SAP Cloud Connector and SAP Cloud Platform are prerequisites. | |
| 1106 | | Installation and Configuration | = | | |
| 1107 | TO_ADS_1.1.01 | Testing | = | Cloud Application Services ("CAS"). Can be performed by customer. | FP_PDF_TEST_00; FP_CHECK_DESTINATION_SERVICE; FP_TEST_03; FP_TEST_IA_01; FP_CHECK_HTTP_DATA_TRANSFER |
| 1108 | TO_ADS_1.1.02 | Data Migration from on premise ADS to ADS on SCP | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1109 | TO_ADS_1.1.03 | Configure Fonts and Print Information using XDC and XCI Files | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1110 | TO_ADS_1.1.04 | Configure document security | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-------------|---------------|---------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1111 | TO_ADS_1.1.05 | Configure job profiles | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1112 | | X44 - SAP Enterprise Threat Detection (ETD) | = | | |
| 1113 | | Installing SAP Enterprise Threat Detection | = | | |
| 1114 | TO_ETD_1.1.01 | Create specific SAP HANA Tenant for SAP Enterprise Threat Detection (ETD) | = | HEC Standard Services | |
| 1115 | TO_ETD_1.1.02 | Install SAP HANA Streaming Analytics Option (Formerly Smart Data Streaming/SDS) | = | HEC Standard Services | For cluster setup see SAP HANA: Streaming Analytics Option (Formerly Smart Data Streaming SDS) |
| 1116 | TO_ETD_1.1.03 | Install of Kafka | = | HEC Excluded Tasks | Customer must provide Kafka cluster |
| 1117 | | Creation of User and Assigning Authorizations | = | | |
| 1118 | TO_ETD_1.2.01 | Create of ETD service users in SAP HANA independent of source systems | = | HEC Standard Services | Users to be created: ETD_DATA_COMMITTER, ETD_DART_COMMITTER;SDS_ADMIN;ETD_BATCH |
| 1119 | TO_ETD_1.2.02 | Create dependent source system user: SDS_RT_<SID> | = | HEC Excluded Tasks | |
| 1120 | | Post Installation | = | | |
| 1121 | TO_ETD_1.3.01 | Finish installation | = | HEC Excluded Tasks | |
| 1122 | TO_ETD_1.3.02 | Provision initial ETDAdmin Administrator | = | HEC Standard Services | |
| 1123 | TO_ETD_1.3.03 | Define of namespaces | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1124 | | Installing SAP Enterprise Threat Detection on Streaming Analytics Option (Formerly Smart Data Streaming/SDS) | = | | |
| 1125 | TO_ETD_1.4.01 | Import SAP HANA Streaming Analytics Option ETD Project | = | HEC Excluded Tasks | See SAP HANA: Streaming Analytics Option (Formerly Smart Data Streaming SDS) |
| 1126 | TO_ETD_1.4.02 | Create data services for SAP HANA | = | Cloud Application Services ("CAS"). Can be performed by customer. | See SAP HANA: Streaming Analytics Option (Formerly Smart Data Streaming SDS) |
| 1127 | TO_ETD_1.4.03 | Configure and deploy projects to the Cluster Workspace | = | Cloud Application Services ("CAS"). Can be performed by customer. | See SAP HANA: Streaming Analytics Option (Formerly Smart Data Streaming SDS) |
| 1128 | TO_ETD_1.4.04 | Start Streaming Web Service | = | Cloud Application Services ("CAS"). Can be performed by customer. | See SAP HANA: Streaming Analytics Option (Formerly Smart Data Streaming SDS) |
| 1129 | | On Demand Tasks | = | | |
| 1130 | TO_ETD_1.5.01 | Install ETD Adapters | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1131 | TO_ETD_1.5.02 | Install warm storage adapter | = | Cloud Application Services ("CAS"). Can be performed by customer. | |
| 1132 | TO_ETD_1.5.03 | Adjust performance settings for aggregates | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1133 | TO_ETD_1.5.04 | Enable configuration checks | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1134 | TO_ETD_1.5.05 | Enable custom configuration checks | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1135 | TO_ETD_1.5.06 | Install ETD log collector | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1136 | TO_ETD_1.5.07 | Encrypt communications between log provider and the streaming web service | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1137 | TO_ETD_1.5.08 | Encrypt communications between non-SAP log provider | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1138 | TO_ETD_1.5.09 | Encrypt communications between log providers and the web service provider | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |



| # | Identifier | Task | D | HEC for Production Advanced Edition | Remarks HEC for Production Advanced Edition |
|-------------|---------------|-------------------------------------------------------------------|---|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1139 | TO_ETD_1.5.10 | Monitor performance of the log learning adapter | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1140 | TO_ETD_1.5.11 | Archive and import of log data | = | Cloud Application Services ("CAS"). Can be performed by customer. | Compilation of project should be executed by SAP If customer performs this task for themselves. |
| 1141 | TO_ETD_1.5.12 | Configure provisioning logs from SAP NetWeaver ABAP based system | = | HEC Excluded Tasks | |
| 1142 | TO_ETD_1.5.13 | Configure provisioning logs from SAP HANA-based system | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Requires modification of audit log parameters and possible mount of filesystems. Not possible to configure with filesystems outside HEC. |
| 1143 | TO_ETD_1.5.14 | Configure provisioning logs from SAP NetWeaver JAVA-based system | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | Requires handling of <SID>adm password |
| 1144 | TO_ETD_1.5.15 | Configure provisioning logs from other systems including OS | = | Cloud Application Services ("CAS"). Cannot be performed by customer. | |
| 1145 | | Other Tasks | = | | |
| 1146 | TO_ETD_1.6.01 | Configure knowledge base | = | HEC Excluded Tasks | |
| 1147 | TO_ETD_1.6.02 | Enter context information | = | HEC Excluded Tasks | |
| 1148 | TO_ETD_1.6.03 | Define locations | = | HEC Excluded Tasks | |
| 1149 | TO_ETD_1.6.04 | Publishing Alerts | = | HEC Excluded Tasks | |
| 1150 | | X45 - Zscaler ZPA Connector | = | | |
| 1151 | | Implementation & Configuration | = | | |
| 1152 | TO_ZPA_1.1.01 | Install ZPA Connector and required OS packages | = | HEC Standard Services | |
| 1153 | TO_ZPA_1.1.02 | Configure ZPA Connector | = | HEC Standard Services | |
| 1154 | TO_ZPA_1.1.03 | Whitelist ZPA Connector IP addresses in LoadBalancer | = | HEC Standard Services | |
| 1155 | TO_ZPA_1.1.04 | Configure connector in ZPA Admin Console | = | HEC Excluded Tasks | |
| 1156 | TO_ZPA_1.1.05 | Provision ZPA Connector provisioning keys | = | HEC Excluded Tasks | |
| 1157 | TO_ZPA_1.1.06 | Install client software | = | HEC Excluded Tasks | |
| 1158 | TO_ZPA_1.1.07 | Client and end-user support | = | HEC Excluded Tasks | |
| 1159 | TO_ZPA_1.1.08 | Sizing of required number of connectors | = | HEC Excluded Tasks | |
| 1160 | TO_ZPA_1.1.09 | Integration with customer's IDP (SAML) | = | HEC Excluded Tasks | |
| 1161 | TO_ZPA_1.1.10 | Install provisioning keys | = | HEC Standard Services | |
| 1162 | | X46 - SAP Omnichannel Banking (OCB) | = | | |
| 1163 | | Implementation & Configuration | = | | |
| 1164 | TO_OCB_1.1.01 | Install Tomcat | = | HEC Optional Services | |
| 1165 | TO_OCB_1.1.02 | Install OCB software Retail Banking or Business Banking (Digital) | = | HEC Standard Services | |
| 1166 | TO_OCB_1.1.03 | Deploy Business Central and Platform and customized .war files | = | HEC Excluded Tasks | HEC performs it for customer for SAP product .war files and Customer provided customized war files |
| 1167 | TO_OCB_1.1.04 | Develop .war files | = | HEC Excluded Tasks | |