



## HPE Factory Express Integration Services

Part number	Type	Service	Description	Notes
<b>HPE Rack SKU with #001</b>	A la carte	HPE Factory Express Base Racking Service	<p>Hewlett Packard Enterprise integrates servers, storage, and network products into the rack, in the factory, prior to shipment.</p> <p>Mounting of servers, storage, and other solution components in a rack, placed according to HPE defined best practice rules or defaults. Service includes power cabling.</p> <p>Specifically and intentionally excludes any signal cable connection, interconnection testing, or solution-level testing.</p> <p>This service provides a rack level power test for all installed products (Power On Self Test).</p>	<p>Order once per rack.</p> <p>Does not include complete signal cabling.</p> <p>Customer cannot specify location/placement of the items in the rack.</p>
<b>HA838A1</b>	A la carte	HPE Hardware Customization Service	<p>HPE configures the server or enclosure hardware—factory integration and custom placement of hardware options (I/O and disk drive slotting, and others).</p>	<p>Sold per server or storage device.</p> <p>Does not include loading of OS, custom image, or custom system settings.</p>
<b>HA839A1</b>	A la carte	HPE System Settings Customization SVC	<p>HPE configures the server or enclosure:</p> <ul style="list-style-type: none"><li>• BIOS settings/onboard administrator settings</li><li>• Internal server storage RAID settings</li><li>• OS settings</li><li>• Network settings; hostname and IP address; time zone; and such</li></ul>	<p>Sold per server</p> <ul style="list-style-type: none"><li>• Standard factory OS load or custom image load must be ordered with this service, if you wish to customize OS settings.</li><li>• Does not include custom integration of server options or custom slot settings.</li></ul>
<b>HA840A1</b>	A la carte	HPE Supplied Asset Tag Service	<p>HPE creates a standard physical asset tag and affixes it to a system, component, or box.</p> <p>Burning of the Electronic asset tag in BIOS or VRAM (HPE ProLiant servers)</p> <p>HPE creates standard physical asset tag that includes:</p> <ul style="list-style-type: none"><li>• Standard label (provided by HPE)</li><li>• Up to four fields (Americas)/five fields (EMEA) of information defined by Customer:<ul style="list-style-type: none"><li>– One of which must be a unique asset tag number in machine and human-readable format (code 3 of 9 preferred)</li><li>– Typically, those fields are asset-tag number, Customer PO number, Customer PO date, HPE serial number, SAP® sales order number, MAC address</li><li>– Text fields to be agreed with HPE, prior to first order</li></ul></li></ul>	<p>This service is priced per asset tag. For example, if two asset tags are to be applied to a single unit, then associate quantity 2 of HA840A1 with the order.</p> <p>Note that any label cannot affect the form and function of the device to which it is to be applied.</p>
<b>HA841A1</b>	A la carte	HPE Customer Supplied Asset Tag Service	<p>HPE affixes a Customer-supplied physical asset tag to a system, component, or box.</p> <ul style="list-style-type: none"><li>• Proper placement of asset tag on identified systems (all regions) and components (Americas only) per agreed upon Customer instructions</li><li>• Burning of the Electronic asset tag in the BIOS or VRAM (HPE ProLiant servers)</li><li>• Asset report upon request (EMEA only): Typically asset-tag number, Customer PO number, Customer PO date, HPE serial number, SAP sales order number, MAC address</li></ul>	<p>This service is priced per asset tag. Standard self-adhesive tags only.</p> <p>Note: Any label cannot affect the form and function of the device to which it is to be applied.</p>

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<b>HA843A1</b>	A la carte	HPE Customer Supplied Image Load Service	<p>HPE loads a Customer provided image manually from media at the factory prior to delivery.</p> <p>Customer-furnished image loading provides the Customer with factory installation of their image in one of the HPE factories around the world. Once the Customer provides HPE with their image in an acceptable format, HPE engineers manually load a copy of the Customer-provided image onto the hard drive of the new systems prior to delivery.</p> <p>Image definition: A copy of the software contents of a hard drive, including the OS, software applications, specialized settings, and device drivers for a specific platform and set of installed hardware.</p>	<p>Order one per server. This service does not include image preparation. This service does not include any testing or changes to the customer-provided images (for example, drivers, service packs, applications, and such). See Image Modification &amp; QA if modification of a customer-provided image is needed. Customers may provide their image via the following supported formats: CDR/CDRW or DVD, FTP, or hard drive. Customers are requested to provide the name and version number of the imaging utility used to create their image. Customers are responsible for licensing all software included in their image and will be requested to sign HPE licensing indemnification letter. If image load is to local drives, then RAID should also be specified; see standard CTO options for RAID or HA839A1 custom system settings service for non standard.</p>
<b>HA844A1</b>	A la carte	HPE 3rd Party HW Install Service	<p>HPE installs selected third-party hardware into a standard HPE server. Third-party component installation service provides stand-alone installation of hardware components into an HPE server.</p> <p>Third-party hardware components retain the original vendors' warranty. HPE does not warrant the third-party HW components beyond the original vendors' warranty, including access points to report failures under manufacturer's warranty.</p>	<p>Order one per component to be installed. Limited to HPE approved third-party hardware.</p> <p>This service is priced per component installed. Price for the HW component itself is not included.</p> <p>Customer can use the HA851A (Customer furnished equipment [CFE] service).</p>
<b>HA846A1</b>	A la carte	HPE VPN Access Service	<p>Customer can remotely access their solution through a virtual private network while the systems are still located in the HPE factory for:</p> <ol style="list-style-type: none"> <li>1. System verification</li> <li>2. System configuration</li> <li>3. Acceptance and benchmark testing</li> </ol>	<p>Order one per order.</p> <p>VPN access limited to 48 hours per instance (quantity) of the service.</p> <p>Customer needs to provide a contact person to get informed about time frame and technical conditions.</p>
<b>HA848A1</b>	A la carte	HPE Firmware Revision Service	<p>HPE loads and verifies Customer-specified revision of appropriate HPE supported firmware.</p>	<p>Order one per server. This service is included in Service Packages 4 and 5 (HA454A1 and HA455A1).</p> <p>In all cases, Customer must ensure firmware will function appropriately with their solution in advance.</p> <p>Capability to apply specific Firmware Revision for some products may be limited.</p>
<b>HA849A1</b>	A la carte	HPE Product and Package Labeling Service	<p>Customer can predefine additional information to be printed on the box labels. Information can include Customer PO, asset tag number, server host name, and others. Also, Customer can define special packaging instructions to remove duplicate or unwanted items from ship-along accessory kits.</p>	<p>Order one per unit (per rack or per server/storage enclosure if not racked).</p>
<b>HA850A1</b>	A la carte	HPE Customer Defined Rack Cable Label Service	<p>The Customer can define how cables will be labeled. This service provides customization beyond the standard cable labeling offered in a la carte service HA865A1 or Package Level 3 <b>install</b> service HA453A1.</p> <p>Customer data center labeling convention or standard can be maintained.</p> <p>HPE can perform cabling and cable labeling to Customer-defined specifications; for example, hardware device paths can be called out on the cable labels at Customer request.</p>	<p>Order one per unit (server, storage, and networking).</p> <p>This service is included with ZU708A, HA454A1, and HA455A1.</p>



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<b>HA851A1</b>	A la carte	HPE CFE Handling Service	<p>This service covers the handling and shipping of CFE.</p> <p>Third-party hardware components retain the original vendors' warranty. HPE does not warrant the third-party HW components beyond the original vendors' warranty, including access points to report failures under manufacturer's warranty.</p> <p>Shipment of CFE along with the solution.</p> <p>Placement of all client-provided instructions, cables, materials, letters, fliers, and such into the original system box or shipped with server/solution.</p>	Order one per added CFE item.
<b>HA864A1</b>	A la carte	HPE Rack Product Placement Service	<p>Custom placement within the rack of HPE rack-mounted products to the Customer's specifications.</p> <p>KVM and power cabling within the rack according to HPE best practices.</p> <p>Labeling of cables within the rack according to HPE best practices.</p>	<p>Order HA864A1 one time per rack.</p> <p>HPE Factory Express Base Level Racking is a prerequisite for this service.</p> <p>Be sure to also order HA865A1 when your Customer expects to have signal cabling between rack components so that there is minimal additional cabling, if any, or work required in the field prior to turn on.</p>
<b>HA865A1</b>	A la carte	HPE Rack Signal Cable Interconnect SVC	<p>HPE provides interconnection of signal cables between HPE rack-able products as identified by the Customer.</p> <p>Signal cabling and interconnect of all hardware components within the rack.</p> <p>Connectivity testing and full rack hardware infrastructure interconnectivity testing of included components at a basic functional level—does not include third-party hardware.</p> <p>Cable routing, management, and labeling within the rack by HPE best practice.</p>	<p>Order HA865A1 one time per rack.</p> <p>HPE Factory Express Base Level Racking is a prerequisite for this service.</p> <p>Use HA850A1 when your Customer expects to manage cables or labeling in the rack outside of HPE best practice rules.</p>
<b>HA867A1</b>	A la carte	HPE Standard Product Reporting Service	<p>HPE provides a data report with predetermined fields.</p> <p>Service provides a simple set of data on stand-alone units. This simple set of data is predefined and systemically captured (such as MAC address) and no complex fields can be selected from the Data Express website for the standard service.</p> <p>Two kinds of unit reports are available: standard or complex.</p> <p>Standard report (HA867A1) includes but not limited to:</p> <ul style="list-style-type: none"> <li>• MAC address of NIC cards</li> <li>• Unit asset tag</li> <li>• Unit serial number</li> <li>• Sales order</li> <li>• Product name</li> </ul>	<p>Note: Field offerings may change slightly based upon the products ordered. For an up-to-date list, contact your regional HPE Factory Express PM.</p> <p>These reports can be sent by email to the Customer even prior to shipment from the factory, with either one of the following format: XML, HTML, or plain text.</p> <p>Order one per unit (server/storage).</p>
<b>HA868A1</b>	A la carte	HPE Enhanced Product Reporting Service	<p>HPE provides a data report with predetermined fields. This service includes HA867A1 HPE Standard Product Reporting Service plus additional data fields.</p> <p>Service provides a set of data on stand-alone units. This set of data is predefined and systemically and manually captured (such as worldwide ID address).</p>	Order one per unit (server/storage).



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<b>HA869A1</b>	A la carte	HPE Rack/Enclosure Reporting Service	<p>HPE provides a data report with predetermined fields when orders are placed with a Data Express Identifier.</p> <p>Service provides a selectable set of data on racked equipment. This set of data is predefined that is systemically and manually captured (such as rack U location).</p> <p>Rack reporting (HA869A1) selections include all complex field selections, but not limited to:</p> <ul style="list-style-type: none"> <li>• Rack U locations</li> <li>• Enclosure slot</li> <li>• Rack serial number</li> </ul>	<p>For custom U location within the rack then additional service such as HPE Custom Placement within a Rack, or service level above must be ordered.</p> <p>Order one per rack and include select equipment in the rack.</p>
<b>ZU715A</b>	A la carte	HPE Virtual Racking Service	<p>The <b>virtual rack service</b> treats products as though they are physical racked during manufacturing when there is no physical rack or there is a need to integrate into a third-party rack. This allows integration of rack services or rack components when a physical rack or HPE rack is not part of the Customer order.</p>	<p>ZU715A should always be order with a service/product that defines the required solution. Requires factory assistance.</p> <p>For third-party racks, ZU715A-001 or ZU715A-002, also needs to be ordered.</p>
<b>ZU717A</b>	A la carte	HPE Ethernet Custom Cable Kit	<p>This is a custom network cable kit for CAT6/CAT6A cables. It can be ordered for factory-integrated systems. A single cable kit includes up to 10 CAT6 cables or 5 CAT6A cables of 12 feet or less in increments of one foot. Customer orders the quantity of kits, and HPE calculates the length during the manufacturing process to help minimize excess cabling.</p>	<p>This custom cable kit is exclusive to racked solutions.</p> <p>If Customer wants CAT6 longer than 12 feet, then custom price quoting is required (for example, the quantities in the bundle may be reduced). Longer lead time will also result when cables longer than 12 foot is needed.</p> <p>To procuring the right length cables, Customers must inform HPE what to do with the cables and must order one of the following cabling services: HA865A1, ZU708A, HA453A1, HA454A1, or HA455A1.</p> <p>If Customer wants plenum-coated cables, lead times will be extended.</p>
<b>ZU718A</b>	A la carte	HPE Multi Rack Integration Service	<p>This service should be used when the Customer's solution spans more than one rack with the requirement to preconfigure 2 or more racks together and one of the other higher end factory services is not being ordered (HPE Factory Express package levels 4 or 5, or one of the HPC cluster services).</p>	<p>Order once per rack (for each rack in the multi-rack solution).</p> <p>Does not include Customer-specified signal cabling.</p> <p>Cannot specify location/placement of the items in the rack.</p>
<b>ZU719A</b>	A la carte	HPE Fibre Channel Custom Cable Kit	<p>Provides a custom cable kit for Fibre Channel (FC) cables. A single cable kit includes up to five FC cables each with a maximum length of 15 meters. The cables can be shortened in length by one-meter increments. Customer will order the quantity of kits required (that is, three kits for 15 cables), and HPE calculates the length during the manufacturing process to help minimize excess cabling.</p>	<p>Limited to racked solutions.</p> <p>Cannot be ordered as stand-alone service, only ordered as part of a racked solution.</p> <p>This FC custom cable kit allows us to procure custom cables and must be ordered with one of the following cabling services: HA865A1, ZU708A, HA453A1, HA454A1, or HA455A1.</p> <p>Cables longer than 15 meters or different end connections, and can be supported by the custom-quoted services.</p>
<b>ZU730A</b>	A la carte	HPE Superdome 2 HW Configuration Service	<p>This service should be used when the Customer's HPE Superdome 2 solution requires multiple factory-configured nPars and HPE Factory Express package levels 4 or 5 have not been selected.</p>	<p>Order once per HPE Superdome 2 <b>complex</b>.</p> <p>Does not include customization of server system settings.</p>
<b>ZU706A</b>	Packaged Offering	HPE Server Customization Package	<p>Provides a bundle of a la carte services at a fixed price.</p> <p>These services include any or all of the following a la carte services:</p> <ul style="list-style-type: none"> <li>• HA838A1 HPE Hardware Customization Service</li> <li>• HA839A1 HPE System Settings Customization Service</li> <li>• HA844A1 HPE 3rd Party HW Install Service</li> <li>• HA848A1 HPE Firmware Revision Service</li> <li>• HA868A1 HPE Enhanced Product Reporting Service</li> </ul>	



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ZU707A	Packaged Offering	HPE Enclosure Customization Package	<p>The enclosure customization service bundle is a grouping of a la carte services provided at a fixed price.</p> <p>These services include any or all of the following services for the enclosure and all devices contained therein as supported:</p> <ul style="list-style-type: none"> <li>HA838A1 HPE Hardware Customization Service</li> <li>HA839A1 HPE System Settings Customization Service</li> <li>HA844A1 HPE 3rd Party HW Install Service</li> <li>HA848A1 HPE Firmware Revision Service</li> <li>HA868A1 HPE Enhanced Product Reporting Service</li> </ul>	Capability to apply specific Firmware Revision for some products may be limited.
ZU708A	Packaged Offering	HPE Rack Customization Package	<p>The rack customization service bundle is a grouping of a la carte services provided at a fixed price.</p> <p>These services include any or all of the following services:</p> <ul style="list-style-type: none"> <li>HA864A1 HPE Rack Product Placement Service</li> <li>HA865A1 HPE Rack Signal Cable Interconnect Service</li> <li>HA844A1 HPE 3rd Party HW Install Service</li> <li>HA850A1 HPE Customer Defined Rack Cable Label Service</li> <li>HA869A1 HPE Rack/Enclosure Reporting Service</li> </ul>	
HA453A1-xxx	Packaged Offering	HPE Factory Express Level 3 Service	<p>The Level 3 Service bundle is designed to provide factory configuration and racking with on-site setup and startup for the Customer who wants HPE to perform the customization and deployment activities required to bring the solution up to an application-ready state.</p> <p>Services included: ZU706A + ZU707A + ZU708A + HPE Onsite Installation</p>	<ul style="list-style-type: none"> <li>Order HA453A1-000 one time per rack (or one time per order for non-racked solutions).</li> <li>Order HA453A1-001, -002, -003, -011, -012, -013, -021, -022, and -023 to match product and quantity of servers, enclosures, storage, and network products ordered. The specific SKUs will be selected for you when working the configuration in the configurator.</li> <li>A prerequisite for loading a custom image is the purchase of one of the Image NRE Set Up Services (HA853A1-001 to -007) to enable image load from depot.</li> </ul>
HA454A1-xxx	Packaged Offering	HPE Factory Express Level 4 Service	<p>HPE Factory Express Level 4 Service is designed to provide the configuration and integration of a Customer-defined complex solution along with the project management and on-site services that helps to ensure a smooth implementation.</p> <p>Service includes the HPE Factory Express Level 3 Services plus the ability to configure complex solutions through one or more of the following (based upon Customer's specification):</p> <ul style="list-style-type: none"> <li>Dedicated project manager</li> <li>Dedicated engineer</li> <li>Complex configuration (for example):                             <ul style="list-style-type: none"> <li>OS optimization and installation of Customer-specified patches</li> <li>VPN access to systems being configured via Factory Express</li> <li>Multi-rack cabling, configuration, and solution testing</li> <li>External RAID configuration (logical drives, partitioning, LUNs)</li> <li>External disk OS load (including disks not in the same rack as the server)</li> <li>Integration and configuration of high-end HPE disk arrays and HPE tape libraries</li> <li>Network switch configuration</li> </ul> </li> <li>System documentation including backup and recovery media</li> </ul>	<ul style="list-style-type: none"> <li>Order HA454A1-000 one time per rack (or one time per order for non-racked solutions).</li> <li>Order HA454A1-001, -002, -003, -011, -012, -013, -14, -015, -016, -017, -021, -022, and -023 to match product and quantity of servers, enclosures, storage, and network products ordered. The specific SKUs will be selected for you when working the configuration in the configurator.</li> <li>A prerequisite for loading a custom image is the purchase of one of the Image NRE Set Up Services (HA853A1-001 to -007) to enable image load from depot.</li> </ul>
HA455A1-xxx	Packaged Offering	HPE Factory Express Level 5 Service	<p>HPE Factory Express Level 5 Service includes all the services provided in the rack-level 3 and 4 services. It also provides expert advice for Customers that want help in designing and optimizing the configuration of their solution.</p> <p>This HPE Factory Express Package utilizes HPE optimized factory capabilities along with an HPE Pointnext Services consultant to deliver a solution that meets the Customer's unique needs and requirements. The service is recommended for Customers that want to benefit from HPE design and configuration expertise and prefer a completely coordinated solution implementation.</p>	



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<b>HA853A1-001</b>	Image Setup Service	HPE NRE—Image Design & QA 1 to 2 Service	<p>HPE creates a new custom image based upon a Customer's functional needs and specifications by making changes to OSs and process the image to be loaded at HPE factories worldwide prior to delivery.</p> <ul style="list-style-type: none"> <li>Design a new image based upon Customer specifications to the following: applications, OSs, service packs, and system software and hardware drivers</li> <li>Includes migrating an image from third-party platforms</li> <li>Valid for one image supporting 1 to 2 platforms</li> <li>Images are tested according to HPE test plan</li> <li>Completed image is provided to the Customer for review and approval prior to production (POC unit purchase may apply)</li> <li>Dedicated HPE program manager acts as the ongoing single point of contact to manage all aspects of a customization project</li> <li>Image archived for future use</li> </ul>	<p>Order one per image.</p> <p>Image Design &amp; Loading part number is valid for the life of the platform that the image was created for. Image Mod &amp; Loading will apply when the image is migrated to a newer HPE platform.</p> <p>If modifications are required to an in-production image, additional charges will apply (see Image Modification &amp; QA service, HA853A1-004, -005, -006).</p> <p>If third-party hardware is to be installed at the HPE factory, please also order 3rd Party Component Integration.</p> <p>Customers are responsible for licensing all software included in their image and will be requested to sign an HPE licensing indemnification letter.</p>
<b>HA853A1-002</b>	Image Setup Service	HPE NRE—Image Design & QA 3 to 4 Service	Same as previous Image Design service, but for 3 to 4 platforms.	
<b>HA853A1-003</b>	Image Setup Service	HPE NRE—Image Design & QA 5 to 7 Service	Same as previous Image Design service, but for 5 to 7 platforms.	
<b>HA853A1-004</b>	Image Setup Service	HPE NRE—Image Modification and QA 1 to 2 Service	<p>HPE modifies an existing HPE or Customer-provided image to OSs and process the image to be loaded at HPE factories worldwide prior to delivery.</p> <p>Modify an existing image developed for an HPE platform (Customer created or HPE) with up to three changes/additions to applications, OSs, service packs, and system software and hardware drivers:</p> <ul style="list-style-type: none"> <li>Includes migrating an image from end-of-life HPE platforms.</li> <li>Valid for one image supporting 1 to 2 platforms.</li> <li>Images are tested according to a test plan developed and provided by HPE.</li> <li>Completed image is provided to the Customer for review and approval prior to production (POC unit purchase may apply).</li> <li>Dedicated HPE program manager acts as the ongoing single point of contact to manage all aspects of a customization project.</li> <li>Load a custom image at HPE factory on each unit.</li> <li>Image archived for future use.</li> </ul>	<p>Order one per image.</p> <p>Image Design &amp; Loading part number is valid for the life of the platform that the image was created for. Image Mod &amp; Loading will apply when the image is migrated to a newer HPE platform.</p> <p>If third-party hardware is to be installed at the HPE factory, also order 3rd Party Component Integration (HA844A1).</p> <p>Customers are responsible for licensing all software included in their image and will be requested to sign an HPE licensing indemnification letter.</p>
<b>HA853A1-005</b>	Image Setup Service	HPE NRE—Image Modification & QA 3 to 4 Service	Same as previous Image Modification service, but for 3 to 4 platforms.	
<b>HA853A1-006</b>	Image Setup Service	HPE NRE—Image Modification and QA 5 to 7 Service	Same as previous Image Modification service, but for 5 to 7 platforms.	
<b>HA853A1-007</b>	Image Setup Service	HPE NRE Customer-Supplied Image Setup Service	<p>HPE will set up Customer provided image for automatic downloading.</p> <ul style="list-style-type: none"> <li>Process a Customer-provided image for load at HPE worldwide factories</li> <li>Image archived for future use</li> </ul>	<p>Order one per image.</p> <p>This service does not include any changes to the Customer-provided images (for example, drivers, service packs, applications, and others). See Image Modification &amp; QA service (HA853A1-004, 005, 006) if modification of a Customer image is needed.</p> <p>Customer is requested to provide the name and version number of the imaging utility used to create their image.</p> <p>Customers are responsible for licensing all software included in their image and will be requested to sign an HPE licensing indemnification letter.</p>
<b>HA854A1</b>	A la carte for Packages 4 and 5	HPE Factory Express Virtualization Enable Service	HPE loads and configures the software and agents on one server.	Only available with HPE Factory Express Package 4 or 5 Sold per server.
<b>HA855A1</b>	A la carte for Packages 4 and 5	HPE Factory Express Additional VM creation Service	HPE creates, loads, and configures additional virtual machines on one server.	Only available with HPE Factory Express Package 4 or 5 Sold per server.



## Service guide

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<b>HA856A1</b>	A la carte for Packages 4 and 5	HPE Factory Express Mission Critical Serviceguard or Microsoft Cluster Service	HPE loads and tests HPE Serviceguard application at the factory prior to deployment.	Only available with HPE Factory Express Package 4 or 5 Sold per server.
<b>HA862A1</b>	A la carte for Packages 4 and 5	HPE Factory Express Control Environment Server Service	HPE loads and configures the software and agents on one server.	Only available with HPE Factory Express Package 4 or 5 Sold per server.
<b>HF481A1</b> <b>HF482A1</b> <b>H4F41A1</b> <b>H4F42A1</b>	Custom Quoted Service	HPE Factory Express Customization Services	Custom quoted services for needs above and beyond any of the packages. The custom quote would be any factory customization per the Customer specifications as defined in a Statement of Work. Examples: <ul style="list-style-type: none"> <li>• Third-party/CFE SW app configuration</li> <li>• Compute clusters</li> <li>• Engineered solutions</li> </ul>	
<b>HK135A1</b> <b>HK136A1</b>	Custom Quoted Service	HPE Factory Express Network Customization Services	Custom quoted services for customization of networking products and solutions.	
<b>AC068A</b>	High Perf. Compute Service	HPE Factory Express Cluster High Density Base HW Integration Service	Once per solution, up to 512 nodes; HPE manages the factory build and configuration of a multiple rack high-performance compute cluster.	
<b>AC069A</b>	High Perf. Compute Service	HPE Factory Express Cluster High Density Node HW Integration Service	Once per node—HW cluster test (no SW).	
<b>HB480A1</b> <b>HB481A1</b> <b>HB482A1</b> <b>HB483A1</b> <b>HB484A1</b> <b>HB485A1</b>	High Perf. Compute Service	HPE Factory Express Cluster Multi Node Software Services	<ul style="list-style-type: none"> <li>• HPC SW integration and Cluster test; ordered for clusters of 4–8 nodes</li> <li>• HPC SW integration and Cluster test; ordered for clusters of 9–17 nodes</li> <li>• HPC SW integration and Cluster test; ordered for clusters of 18–33 nodes</li> <li>• HPC SW integration and Cluster test; ordered for clusters of 34–65 nodes</li> <li>• HPC SW integration and Cluster test; ordered for clusters of 66–129 nodes</li> <li>• HPC SW integration and Cluster test; ordered for clusters of 130–257 nodes</li> </ul>	

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