

BORANG PELAWAAN MEMBERI CADANGAN

MAKLUMAT KORPORAT SYARIKAT:

A	NAMA SYARIKAT		
B	NOMBOR PENDAFTARAN SYARIKAT		
C	ALAMAT BERDAFTAR		
D	ALAMAT SURAT MENYURAT		
E	NO. TELEFON		
F	NO. FAKSIMILI		
G	MAKLUMAT PEGAWAI YANG BOLEH DIHUBUNGI	NAMA	
		JAWATAN	
		EMAIL	
		WEBSITE	
		NO. TELEFON	

CADANGAN UNTUK IMPLEMENTASI MICROSOFT ACTIVE DIRECTORY (AD)

Universiti Selangor (UNISEL) mempelawa pembekal yang berkeelayakan dan berpengalaman untuk mengemukakan Cadangan Untuk Implementasi Microsoft Active Directory (AD).

PENYEDIAAN DOKUMEN RFP

1. Kos yang terlibat didalam penyediaan dokumen RFP ini akan ditanggung oleh pihak pemohon.
2. Salinan pendaftaran **Suruhanjaya Syarikat Malaysia (SSM), Borang 24, Borang 49.**
3. Salinan pendaftaran sebagai kontraktor dengan Universiti Selangor (UNISEL).
4. Maklumat korporat syarikat termasuk saiz syarikat dan keupayaan kewangan.
5. Ringkasan eksekutif mengenai pendekatan pelaksanaan projek.
6. Proses pelaksanaan projek, project milestone dan serahan projek.
7. Cadangan skop projek.
8. Kepakaran/keupayaan tenaga kerja syarikat.
9. Pengalaman syarikat dalam bidang berkaitan termasuk senarai projek yang telah dilaksanakan.
10. Cadangan prosedur menangani risiko seperti kelewatan projek, isu-isu pelaksanaan dan risiko kewangan yang terlibat; dan
11. Brosur dan dokumen-dokumen lain yang berkaitan.

MICROSOFT ACTIVE DIRECTORY DETAILS REQUIREMENT:

Bil	Description	Technical Specification
1.	Propose	The objective of the project is to implement of Microsoft Active Directory solution in UNISEL.
2.	Scope of Work	The tenderer is expected to provide:-
		<ul style="list-style-type: none"> • Installation, configuration, implementation and testing according to minimum requirements stated in the document.
		<ul style="list-style-type: none"> • To supply all fixes, supporting files and licenses to complete the system solutions
		<ul style="list-style-type: none"> • Design and Implementation
		<ul style="list-style-type: none"> • Training and documentation
		<ul style="list-style-type: none"> • Project Management.
		<ul style="list-style-type: none"> • Warranty, Support and Maintenance.
3.	Requirement	
		Installation and configuration of Microsoft Active Directory services on the following (redundant configuration):
		<ul style="list-style-type: none"> • Implementation of Primary Domain Controller
		<ul style="list-style-type: none"> • Implementation of Secondary Domain Controller
		<ul style="list-style-type: none"> • Implementation of DR Domain Controller
		<ul style="list-style-type: none"> • Schedule backups and replications between Primary, Secondary and DR Domain Controller best practices.
		<ul style="list-style-type: none"> • Secondary and DR Domain Controller should be able to take over all DC related functions with no down time if Primary Domain Controller goes down.

		<ul style="list-style-type: none"> • Design basic Group Policy Objects for Directory Services includes: <ul style="list-style-type: none"> ○ DS objects naming convention (for users, group & hosts), ○ Organisational Unit (OU) structure, ○ Joining desktops / laptops to the domain.
		<ul style="list-style-type: none"> • Basic Scripts should be provided to meet system administrative activities such as: <ul style="list-style-type: none"> ○ To standardise desktop wallpaper and default homepage ○ To check how many system are up and running ○ Customised reports of connected clients ○ File Servers and individual repository with sufficient data storage capacity
		Others requirement for the configuration and installation Microsoft Active Directory:
		<ul style="list-style-type: none"> • To integrate and authentication the AD for user (staff) desktop login.
		<ul style="list-style-type: none"> • To integrate and authentication the AD for Total Campus Management Systems login (staff and student)..
		<ul style="list-style-type: none"> • To integrate and authentication the AD for email login (Office 365).
		<ul style="list-style-type: none"> • To integrate and authentication the AD for Wi-Fi access (student and staff).
		<ul style="list-style-type: none"> • To integrate and authentication the AD for student e-Learning and Library system.
		<ul style="list-style-type: none"> • To enable synchronization and failover between two campus and future location.
		<ul style="list-style-type: none"> • To create, deploy and integrate AD sub-Domain: <ul style="list-style-type: none"> ○ staff.unisel.edu.my ○ student.unisel.edu.my ○ vdi.unisel.edu.my ○ others related (Please advise)
		<ul style="list-style-type: none"> • The system shall be extendable to support over 20000 users and above.
		<ul style="list-style-type: none"> • Please stated other requirement if required.
4.	Hardware	
		The server for Microsoft Active Directory operation are using existing UNISEL Server Virtualization Infrastructure.
		The tenderer is required to install, configure and deploy the Microsoft Active Directory in virtual server.
		<ul style="list-style-type: none"> • Required 4 unit of the virtual server. • The location of the virtual server is divided by two campus locations:

		<ul style="list-style-type: none"> ○ 2 Unit Virtual Server at Kampus Bestari Jaya ○ 2 Unit Virtual Server at Kampus Shah Alam
		The tenderer also required to advised the virtual server specification and operating system licensing (per Core or CAL's) for Microsoft Active Directory.
		The tenderer shall propose the hardware specification of the above Domain Controllers and integrated the hardware as part of Servers proposed for Data Centre and Disaster Recovery Centre.
		Proposed virtual server specification as below:
		• Server : Virtual Server
		• vCPU : 2 x CPU
		• vMemory : 6 GB
		• vDisk :300 GB
		• Operating System : Microsoft Server 2012 R2 Standard Edition (Operating System is provided by UNISEL)
		Please advise and stated other requirement if required.
5.	Software	
		Microsoft Active Directory (AD)
		• Should support multi-master directory service replication features, Directory Server should be scalable and should have multi-master & multi-site capabilities.
		• Should support directory services integrated DNS zones for ease of management and administration/replication.
		• Should Support for DNS as the locator service (service records & dynamic updates).
		• The directory service should support features for health monitoring and verifying replication.
		• The directory service should provide support for Group policies and software restriction policies.
		• The directory service shall provide support for modifiable and extensible schema.
		<ul style="list-style-type: none"> • The Object types supported should include: <ul style="list-style-type: none"> ○ Users Object Type; ○ Groups (Security & Distribution Groups which can be static or dynamic) ○ Foreign Users (Non-employees/Business partners etc.) ○ Printers ○ Containers for purposes of grouping, administration and policy control

		<ul style="list-style-type: none"> • Search capability to query all directory objects.
		<ul style="list-style-type: none"> • Search capability to query network resources by attributes.
		<ul style="list-style-type: none"> • Should support recovery of a Single Object as well as the entire directory.
		<ul style="list-style-type: none"> • Loss of a single directory server should not affect ability for users to logon.
		<ul style="list-style-type: none"> • Should have single integrated directory for OS and Messaging with unified management capabilities.
		<ul style="list-style-type: none"> • Should support that password reset capabilities for a given group or groups of users can be delegated to any nominated user.
		<ul style="list-style-type: none"> • Should support that user account creation/deletion rights within a group or groups can be delegated to any nominated user.
		<ul style="list-style-type: none"> • Should support that group membership management within a group can be delegated to any nominated user.
		<ul style="list-style-type: none"> • Should support multiple password and account lockout policies for different set of users.
		<ul style="list-style-type: none"> • Directory services should be extensible & should have capability to be extended for custom development.
		<ul style="list-style-type: none"> • Should support the compliant directory services to store information about users, computers, and network resources, file shares, printers and making the resources accessible to users and applications.
		<ul style="list-style-type: none"> • Should provide the audit capability to log old and new values with time stamp when changes are made to objects and their attributes; should provide delete protection for directory objects.
		<ul style="list-style-type: none"> • Should support the deployment of a read only additional directory server which may be deployed in a different location so as to prevent any changes from the other location and provide unidirectional replication.
		<ul style="list-style-type: none"> • Directory services should support directory database snapshot tool, which should support creating snapshots of the directory database & should allow directory administrator to view the objects within the snapshot to determine the restore requirements when necessary.
		<ul style="list-style-type: none"> • Directory Architecture: should have at least 2 servers for load balancing and ensuring high availability.
		<ul style="list-style-type: none"> • Directory services should provide capabilities to undo an accidental deletion of object.
		<ul style="list-style-type: none"> • Directory Services should provide command-line scripting for administrative, configuration and diagnostic tasks with a consistent vocabulary and syntax.
		<ul style="list-style-type: none"> • Directory Services should provide an Administrative Center console for providing a task-oriented administration model, with support for larger datasets.

		<ul style="list-style-type: none"> • Directory services should provide a built-in mechanism for Best Practice Analyzer (BPA) to identify deviations from best practices to help IT professionals better manage their Directory Service deployments.
		<ul style="list-style-type: none"> • Directory Services should provide a built-in authentication mechanism assurance.
		<ul style="list-style-type: none"> • Directory services should provide with Offline-domain joining functionality.
		<ul style="list-style-type: none"> • Directory services should provide features to manage service accounts where by the passwords of the service account could be managed automatically.
		<ul style="list-style-type: none"> • Should provide user-profile migration for every workstation after the installation of AD complete.
6.	Design and Implementation	
		The tenderer will be required to implement the complete Microsoft Active Directory (AD)
		The detailed technical architecture and location wise implementation plan of Microsoft Active Directory (AD) will be discussed and finalized with the CICT Technical team immediately after the award of Purchase Order.
		<p>Planning Directory Services Deployment</p> <ul style="list-style-type: none"> • Determining Directory Services Design and Deployment Strategy which includes Design Requirement, Deployment Requirement and Restructure Requirements. • Testing and Verifying the Deployment Process
		<p>Designing Directory Logical Structure</p> <ul style="list-style-type: none"> • Identifying Deployment Project Participants • Creating Forest Design • Creating Domain Design • Designing DNS Infrastructure to support Directory Services • Designing Organisational Units for delegation of Administration
		<p>Designing Site Topology</p> <ul style="list-style-type: none"> • Collecting Network Information • Planning Domain Controller Placement • Creating Site Design • Creating Site Link Design • Creating Site Link Bridge Design

		<p>Planning Domain Controller Capacity</p> <ul style="list-style-type: none"> • Collecting Site Topology Design Information • Determining Number of Domain Controllers • Assessing Disk Space and Memory Requirements • Monitoring Domain Controller Performance
		<p>Planning Secure Environment</p> <ul style="list-style-type: none"> • Addressing User-Related Requirement • Establishing Secure Shared IT Infrastructure
		<p>Designing Authentication Strategy</p> <ul style="list-style-type: none"> • Creating Foundation for Authentication • Securing Authentication Process • Extending Authentication Framework • Enabling Supplemental Authentication Strategies • Educating Users About Authentication Process
		<p>Designing Resource Authorisation Strategy</p> <ul style="list-style-type: none"> • Establish Resource Authorisation Method • Defining Policies for Security Group Management • Delegating Security Group Maintenance
		<p>Designing Public Key Infrastructure</p> <ul style="list-style-type: none"> • Defining Certificate Requirements • Designing CA Infrastructure • Extending CA Infrastructure • Defining Certificate Configuration Options • Creating Certificate Management Plan • Deploying PKI • Backup policy and configuration
7.	Training and Documentation	The tenderer needs to provide complete technical training to the UNISEL technical staff on Microsoft Active Directory through Microsoft certified training partner.
		The tenderer needs to provide trainings and educational materials to the UNISEL technical staff on both system administration and operations of the proposed solution.
		All trainings have to be conducted at the UNISEL Office. All training sessions have to be conducted before production launch.

		The installation and configuration must be done with I.T. personnel for Transfer of Technology (TOT)
		Professional Certification is required for UNISEL technical staff.
		Document deliverables include but not limited to: a. Project plan and AD design specifications. b. Test plan, test specifications and test reports. c. Training Guide. d. Standard Product Manual including software media (where applicable) and license materials. e. Problem log during overall project implementation.
8.	Project Management	The tenderer shall provide project management service including but not limited to: a. Oversee the implementation of the whole project; b. Make sure the proposed solution is delivered on schedule c. Serve as a quality controller to inspect service delivered.
9.	Delivery and Installation	a. All hardware and software needed to be delivered to UNISEL not later than two (2) weeks after UNISEL confirmed the contract. b. All hardware and software needed to be delivered, install and configure at Data Center Kampus Shah Alam and Data Center Kampus Bestari Jaya. c. Since it is anticipated that some of the implementation will need to be carried out in non-office hours, tenderer should include in the proposal the services for non-office hours installation and implementation of the system.
10.	Warranty, Support and Maintenance	a. The UNISEL prefers to have support and maintenance provided by original product manufacturer.
		b. Warranty period of at least 3 years is required.
		c. Service is to be provided 7 days x 24 hours x 365 days. This includes:
		i. 24 x 7 on-site remedial maintenance and support services for all hardware, software items (where applicable); ii. Unlimited 24 x 7 telephone assistance for problem solving including both hardware and Software related problem; iii. Should any part or whole of equipment found to be defective, they must be replaced by

		<p>new part or new equipment within the service level specified in the above part (a);</p> <ul style="list-style-type: none"> iv. In event when no new part nor new equipment is available for the replacement, used part or equipment is acceptable only as a temporary solution until new part or equipment is ready; v. Vendor shall make sure and/or carry out any firmware upgrade/downgrade to any replacement part or equipment to reinstate the UNISEL's standard version; vi. Services Fees shall cover all parts (including battery, where applicable), labour, delivery, travelling and any other cost incurred. vii. The Tenderer shall provide a primary and a secondary call number to the UNISEL for direct support. The Tenderer shall respond by telephone or by email within 30 minutes upon receipt of a fault call from the UNISEL. viii. Tenderer is required to state whether to comply with the above requirements. For each of the proposed products and customizations, if any, the minimum warranty period and the support and maintenance service level must be specified.
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SKOP KERJA

1. Konfigurasi, pemasangan dan pelaksanaan Microsoft Active Directory.
2. Latihan dan dokumentasi.
3. Pengurusan Projek.

Sebarang pertanyaan boleh diajukan melalui email kepada projekict2017@unisel.edu.my. Sebarang kaedah pertanyaan lain tidak akan dilayan.