## 2. Technical Design Diagram

Provide a diagram that illustrates all new and existing technical resources required for the successful completion of this project. The diagram should include the following:

* How new infrastructure will be located and how it will connect within existing enterprise infrastructure.
* Servers, storage, network – assume all are virtual unless there are specific technical issues that are expected to require physical resources.
* Logical data flow.
* Critical ancillary equipment or connections where needed.

**3. Technical Specifications**

Provide detailed technical specifications for required infrastructure as outlined below.

**3.1 Servers**

FC Platinum servers for Microsoft Dynamics 365 Finance and Operations are categories in four

* Application Server
* Files Server
* Web Server
* Database Server

The above servers are required in the implantation of Microsoft Dynamics 365 Finance and Operations and the following are the required specifications:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Operating System | Application memory requirements  (GB) | Application CPU requirements  (Core) | Application Functional Dependency |
| Application Server | Microsoft Windows Server 2016 | 24 | 8 | SSIS, SSRS |
| File Server | Microsoft Windows Server 2016 | 48 | 8 | SSRS |
| Web Server | Microsoft Windows Server 2016 | 24 | 8 | SSIS |
| Database Server | Microsoft Windows Server 2016 | 24 | 8 | SSIS, SSRS,4.5.1 Dotnet Framework |

**3.2 Server Request Forms**

NUIT’s Office for Cyberinfrastructure (CI) provides hosting services as outlined in the ***Data Center Application and Equipment Hosting Services*** policy. CI has developed various data collection forms to enable more efficient collection of the data required to support these services. At this stage of the process, you should enter the request forms for required servers. All server requests forms can be found at URL:  ***.***

**3.3 Access Requirements**

The following is the number ofusers requiring simultaneous access to the application. All mapping where derived from the current system (Microsoft Dynamics ax 2012) will be used in the new system (Microsoft Dynamics 365 Finance and Operations)

|  |  |
| --- | --- |
| USERS | USER COUNT |
| FC Platinum User | **29** |
| Mimosa I. T | **5** |
| IBTS Developers | **3** |
| IBTS Functional Consultant | **2** |

**3.4 Database Requirements**

* Microsoft SQL Server 2016 Standard Edition or Enterprise Edition
* The Microsoft .NET Framework version 4.5.1 or later
* Server Fabric



**3.5 Storage Needs exclusive of databases**

Describe the following elements related to storage needs, excluding database requirements:

* The amount of storage needed for the first 12 months (in GB).
* Projected annual growth (% or GB).
* Data protection.

Note: The NUIT data backup standard is weekly fulls with a two-week incremental rotation; fulls are retained for 29 days. If this does not meet your needs, specify requirements here.

**4. Resource Needs**

Identify the staff resources needed to successfully complete this project. Also identify the staff, technical, and other resource dependencies that should be considered.

* Staff Resources
* Staff Dependencies
* Technical Dependencies
* Other Dependencies

**5. Assumptions**

Enumerate all additional assumptions that will impact the technical design, documentation and cost estimate for this project.

**6. Concerns and Issues**

Enumerate all additional concerns and issues that may impact the technical design, documentation, or cost estimate for this project.

**7. Projected Costs**

Update the cost-estimate prepared for the *High-level Technical Design,* completed during the Inception phase of the project. Alternatively, prepare a new cost estimate using Excel. Include the detailed calculation information on one tab and the summary estimate information on a separate tab. The spreadsheet should accompany this document (whether electronic or hard copy) in all communications. ***If the cost estimate is greater than the one prepared during the Inception phase, you may need approval to proceed.***

**Document Tracking**

The following chart is used to log of all changes made to this document.

| **Version** | **Date of edit/change** | **Who made the edit/change** | **Description of edit/change** |
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