# Task 4 – IS Design Document - Part 2 ASSESSMENT

The following information should assist you completing Part 2 of the IS Design Document. Using the skills you have built in weeks 1-8, the Illustration tools in word 2007and following the structure of the Research Analysis Report Template (provided in Digital Resources) complete your Network Communication Requirements, Network Design, Hardware Selection Proposal, and Software Selection Proposal.

The Research Analysis Report Template provides an example of the type of information and the structure of the document, however the content should be taken from your own research including the information that you would have found by answering the questions below. Additionally, some information will have to de created/designed by you using other software tools such as Word, Excel and Access 2007. Additional information in your report could include images, charts tables, links and webpages/design drafts, where you feel these are necessary to provide required information to your client organisation.

1. **Networked Communication Requirements[[1]](#footnote-1)**
   * 1. Who are the external entities that require access to your information?
     2. Who are the external entities that you require information from?
     3. What Wide Area Network (WAN) connections are required and where?
     4. What kind of Internet communication bandwidth is required and why?
     5. What wired LANs are required and where?
     6. What are the bandwidth requirements of the different parts of the LAN (how many people, what sorts of tasks, file server, web server, etc)?
     7. What wireless LANs are required and where?
     8. What are the approximate bandwidth requirements of wireless users and what is the maximum operating distance from a wireless access point?
     9. How many server computers do you require in your organization?
     10. What communication related services will be housed internally and what services will be hosted by an external provider (ISP, IT Services, etc)?
2. **Network Design[[2]](#footnote-2)**
   1. What is the physical layout of the network that supports your proposed information system (diagrams, physical structure, etc)?
3. **Hardware Selection Proposal[[3]](#footnote-3)**
   1. What hardware items (computers, cables, routers, hubs, wireless access points, etc) to you propose to use in your physical design?
   2. Justify your choice based on performance, price, flexibility, scalability, redundancy, service arrangements, and interoperability with any existing systems
4. **Software Selection Proposal[[4]](#footnote-4)**
   1. What special purpose or industry specific software tools do you propose for your information system (hint: search the web for things like: “hospitality or restaurant software”, “health information systems”, “business software”, etc)?
   2. What general software tools do you propose for your business computers (operating systems, office productivity, accounting, web, email, other communications tools, etc)?

## Marking Criteria:

|  |  |  |
| --- | --- | --- |
| Element | Marks | Description of Element |
| Networked Communication Requirements | 10 | Evidence of a considered network and communication strategy and design that suits the limitations of user types, geographical locations, bandwidth needs and wired versus wireless networking. *We do not need perfect design but justification of design based upon some valid argument.* |
| Network Design | 5 | What is the physical layout of the network that supports your proposed information system (diagrams, physical structure, etc)? *As per demonstrations in workshop and exercises in labs* |
| Hardware Selection Proposal | 10 | Look for a considered argument based upon the types of activities going on within the organization. Actual performance figures are not important but general design outcomes and arguments are. *The key here is the description and justification of design based on performance, price, flexibility, scalability, redundancy, service arrangements, and interoperability with any existing systems* |
| Software Selection Proposal | 10 | Students should have provided some evidence of research into industry specific software tools that are available. *You should be able to make some arguments for or against software adoption based upon projected needs, organizational size and structure.* |

Total Marks will be divided by 3.5 to give a mark out of 10.

## Submission:

You are required to submit this document in SafeAsign in the submissions folder. SafeAsign checks that you have not copied (without referencing) any material that you have used.

Once marked and moderated, your results can be viewed by clicking on the ‘My Grades’ link in the blackboard.

1. SA&D Ch 4 [↑](#footnote-ref-1)
2. SA&D Ch 10, Word 2007 Illustration tools [↑](#footnote-ref-2)
3. SA&D Ch 10, Excel 2007 [↑](#footnote-ref-3)
4. SA&D Ch7 & 9, Excel 2007 [↑](#footnote-ref-4)