



ISYS90048

Managing ICT Infrastructure

SECOND SEMESTER, 2018

Department of Computing & Information Systems
The University of Melbourne
10 November, 2018

ASSIGNMENT A03a

Assignment A03: Limited Time Assignment

Objectives: The limited time assignment A03 assesses understanding of all of the topics covered in the Subject ISYS90048 Managing ICT Infrastructure, against the stated Learning Outcomes of the Subject.

Requirement: You are required to read the attached case study and answer **THREE out of the FOUR** questions that are relevant to that case study within a 28 hour time period.

The actual work required to complete the assignment is expected to be about 4-5 hours. You should read the case study and the questions, and then spend time thinking about the questions and composing your answers before producing the final copy of your submission. The time period of 28 hours is intended to allow you time to consider your answers and to consult relevant information resources.

There are no word count limitations for this assignment.

Relationship of Assessment Criteria to Learning Outcomes

Assignment A03 is assessed against each of the Learning Outcomes stated in the Subject Outline.

Rules for Assignment A03

Plagiarism: You must not discuss the questions, your answers or any other matters related to the content of this Assignment with any other students currently or previously enrolled in the Subject. If you have any questions, they should be addressed to the Subject Coordinator via email.

Report medium: Your submission should be prepared as a MS-Word or PDF document.

References: You may include a Reference list at the end of your submission. Entries in the Reference list should be sorted alphabetically by author, then by year of publication for works by the same author(s). Use Harvard style referencing.

Release Date: 12:00 pm, Saturday 10 November 2018.

Deadline: 4.00 pm, Sunday 11 November 2018.

The assignment questions and case study are available from this page for this subject on LMS from 12.00 pm on Saturday, 10 November 2018.

No extensions are permitted, as this is a limited time assignment.

Your report should be prepared as a MS-Word or PDF document, and submitted electronically via the Learning Management System.

You are permitted to make ONE submission for this assignment.

If you are unable to submit via LMS, or if you believe that you have not

correctly submitted the assignment, then send the completed assignment as an attachment via email to:

Malcolm.Bertoni@unimelb.edu.au

For more information on the University Academic Honesty policy, refer to:

<https://academichonesty.unimelb.edu.au/>

Marks: 40% of the total assessment for the Subject (Expected average mark: 75%)

Late Penalty: The Limited Time Assignment must be completed by 4.00 pm on Sunday 11 November 2018. Late submissions will not be accepted unless you have received prior approval for an extension of the deadline for this assignment from the Subject Coordinator.

Questions

Instructions: You are to attempt **THREE (3) out of the following FOUR (4)** questions only. Each question has the same weight in terms of the marking scheme.

It is preferred that you clearly structure your answers to these questions as follows:

- Use title and subtitles to highlight the structure of your answers;
- Use introductory paragraphs to clearly indicate the approach that you are taking in composing the answer to each question, and any assumptions that you consider to be relevant to your answer;
- Use notes or bullet points to present the content of your answers. Each bullet point may be a single sentence or a paragraph that describes one aspect of your answer;
- Structure your answer as tables to clearly indicate the analysis of the information in the case study, and the way in which you have formulated your answer to the question.

As a guide, TWO (2) pages minimum of single spaced type in 12pt Times Roman or 10pt Arial are expected as an answer to each question.

Attached is an article:

Government of Canada, Service Oriented Architecture Strategy Statement of Direction, Chief Information Officer Branch, Enterprise Architecture and Standards Division. February 2016, 14 pp.

This article describes the adoption of a Service Oriented Architecture Strategy by the Chief Information Officer Branch to support its business processes for the Government of Canada.

You should read this article before attempting THREE of the following questions.

Attempt THREE (3) out of the following FOUR (4) questions only.**Question 1**

The achievement of high levels of interoperability is a key requirement of any enterprise-wide systems.

What evidence is there in the case study that the Chief Information Officer Branch has considered the complex issues of interoperability for the Government of Canada?

Question 2

Consider the statement on Page 7 (Section 4.2. The Value of SOA):

“One of the key goals of a service-oriented design is to cut through the current information silos, promote interoperability and enable services to be delivered more effectively and uniformly. SOA adoption has the potential to erase the barriers that separate the business and technology sides of any organization, dramatically improving productivity, and increasing overall harmony and agility.”

How does the Service-Oriented Architecture (SOA) adopted in this project address the key goals that are specified for the Government of Canada?

Question 3

This case study does not refer to the use of any ICT governance framework in this Statement of Direction.

If you were engaged as a consultant to the project described in this case study, what ICT governance framework(s) would you consider relevant to the development of this Service Oriented Architecture by the organisation?

Briefly justify your recommended ICT governance framework, based on the information available in the case study, and your understanding of the development of a Service Oriented Architecture to support the systems used by the Government of Canada in this case study.

Question 4

If you were engaged as a consultant to the project, what ICT infrastructure issues would you consider relevant when you decided to undertake the Service Oriented Architecture strategy in this case study?

Discuss this from the viewpoint that you would adopt if you were appointed the Service Architect for the SOA strategy.