Operational Concept Description (OCD)

We Are Trojans (WAT) Network

Team01

Team members	Roles	
Eirik Skogstad	Project Manager, Life Cycle Planner	
Min Li	Feasibility Analyst, Operational Concept Engineer	
Pittawat Pamornchaisirikij	NDI/NCS Acquirer & Evaluator, Tester	
Punyawee Pakdiying	System Architect, Feasibility Analyst	
Saloni Priya	Requirements Engineer, UML Modeler	
Ameer Elkordy	IIV&V, Quality Focal Point	
Suleyman Erten Operational Concept Engineer, Requirements E		
Kamonphop Srisopha	Prototyper, UML Modeler	

Version History

Date	Author	Version	Changes made	Rationale	
10/10/14	ML, PP, SE	0.5	Original template for use	• Initial draft for use	
10/18/14	ML, PP, SE	1.0	Complete all section Update information according to the con		
			• fixed inconsistency word	the ARB session	
10/29/14	SE	1.1	Level of Service	• Level of Service update from Winbook	
11/29/14	SE	1.5	Program Model Font Color	Feedback from ARB	
			• Initiative in Program Model		
			Benefits Chain Diagram		
			 System Boundary and Environment 		
			• Table of Artifacts Descriptions		
			Capability Goals		
			Document Template		
12/07/14	PP	2.0	Update the header of the document	Update for DCP review	
			• Update the document verison		
02/15/15	SE	3.0	Update the document version	Update for RDCP review	
			 Update in System Boundry 	1	
04/08/15	SE	4.0	Update the header of the document	• For TRR Package Submission	
			• Update the document version		
			Update in System boundry		
			• Update in Section 3.2.5		

Table of Contents

Op	erational	l Concept Description (OCD)	i
		tory	
		ntents	
Tal	ole of Tal	bles	iv
Tal	ole of Fig	gures	v
1.	Introdu	ection	1
	1.1	Purpose of the OCD	
	1.2	Status of the OCD	1
2.	Shared	Vision	2
	2.1	Benefits Chain	3
	2.2	System Capability Description	3
	2.3	System Boundary and Environment	4
3.	System	Transformation	5
	3.1	Information on Current System	5
	3.2	System Objectives, Constraints and Priorities	6
	3.3	Proposed New Operational Concept	8
	3.4	Organizational and Operational Implications	.10

Table of Tables

Table 1: The Program Model	2
Table 2: The Capability Goals	
Table 3: Level of Service Goals	
Table 4: Relation to Current System	

Table of Figures

Figure 1: Benefits Chain Diagram of WAT Network	£
Figure 2: System Boundary and Environment Diagram of WAT Network	
Figure 3: Current Business Workflow	
Figure 4: Element Relationship Diagram of WAT system	
Figure 5: Business Workflow Diagram of WAT System	

1. Introduction

1.1 Purpose of the OCD

This document lists out details of win-conditions negotiated among success-critical-stakeholder of the We Are Trojans (WAT) Network. The success-critical stakeholders of the project are Matthew Wong, our client; USC students and staff, as users; Team 1, as a software development and maintenance team.

1.2 Status of the OCD

The OCD is currently in version 4.0 for TRR. We completed all of the section in OCD and also update the information according to the RARB session.

2. Shared Vision

Legend: Benefits are added to the program model:

Table 1: The Program Model

Assumptions

- USC students need a central platform to connect, share, and like information with each other
- Reward point system will work as the important incentives for users to join the network

Stakeholders (Who is accountable for the initiatives)	Initiatives (What to do to realize benefits)	Value Propositions (Benefits i.e Why)	Beneficiaries (Who derives value)
 Developers Maintainers Clients Gift/Book stores 	 Develop the system Maintain the system Advertise the system to USC community Partner with schools Negotiate deals with on-campus bookstore/gift store Use the system functionalities 	 Increase camaraderie between Trojans One-stop shop to answer any USC related queries Increase communications between students across schools 	USC studentsUSC alumniUSC faculty
Cost (Cost factors)Development costsMaintenance costs		• The number of active unetwork increases.	
Advertising/MarketinWeb server, Web hos	~		

2.1 Benefits Chain

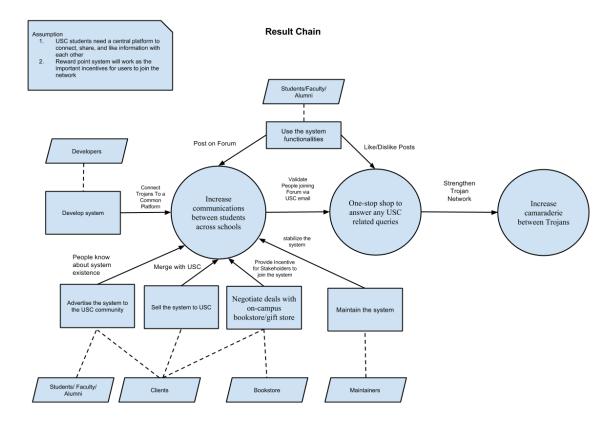


Figure 1: Benefits Chain Diagram of WAT Network

2.2 System Capability Description

- The We are Trojans (WAT) Network is a social collaboration website.
- The target customers are USC students, USC alumni, and USC faculty.
- The need or opportunity that will be satisfied by the system.
 - o Increase communication between students across schools
 - o Increase camaraderie between Trojans
 - o One-stop shop to answer any USC-related queries
- A compelling reason for the customer to buy/use the system.
 - This system will facilitate the users to ask questions to other students by just logging into the system and searching for the existing thread or post a new one in the forum.
 - o For a user who contributes to the We Are Trojans system, he or she will get WAT points which can be redeemed for items/giftcards.
 - O All questions can be answered in a single place.
- The closest competitor:
 - o D2L forums
 - o Piazza
 - o Facebook
- The system's primary differentiation from, or benefit over, the closest competitor or alternative approach, if there are competitors or alternatives at the time
 - o WAT Network rewards users who contribute to the system by giving them WAT points.

2.3 System Boundary and Environment

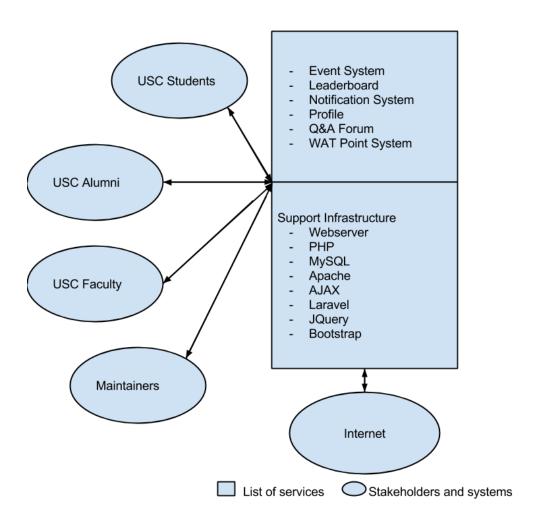


Figure 2: System Boundary and Environment Diagram of WAT Network

3. System Transformation

3.1 Information on Current System

3.1.1 Infrastructure

There is no current infrastructure.

3.1.2 Artifacts

Currently, there are no artifacts. However, we will probably be using artifacts listed below.

3.1.3 Current Business Workflow

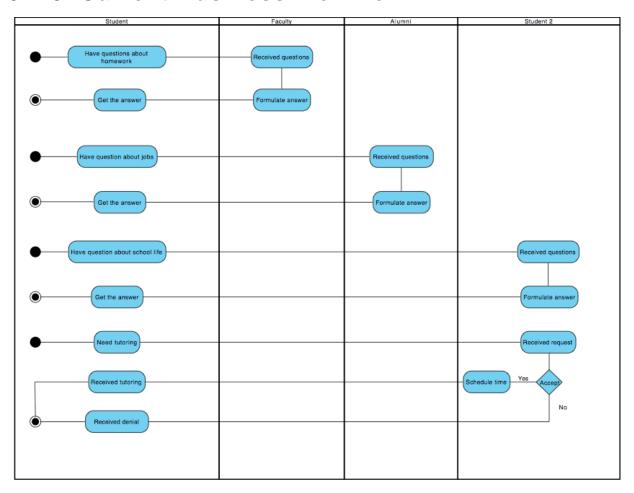


Figure 3: Current Business Workflow

3.2 System Objectives, Constraints and Priorities

3.2.1 Capability Goals

The Priority Level ranges from 1-10; 1 is the highest level priority and 10 is the lowest level.

Table 2: The Capability Goals

Capability Goals	Priority
OC-1 Q&A Forum	1
OC-2 WAT Point System	2
OC-3 Notification System	3
OC-4 Profile	4
OC-5 Leaderboard	5
OC-6 Redemption	6
OC-7 Event System	

3.2.2 Level of Service Goals

Table 3: Level of Service Goals

The Priority Level ranges from 1-10; 1 is the highest level priority and 10 is the lowest level.

Level of Service Goals	Priority Level	Referred WinWin Agreements
LOS-1: The system shall be user-friendly and intuitive.	1	WC_3253
LOS-2: The system shall render correctly on mobile platforms.	2	WC_3256

3.2.3 Organizational Goals

- **OG-1:** Increase the connection among students by providing them with an easy-to-use forum.
- **OG-2:** Increase the credible information via like/dislike ratio.
- OG-3: Increase the speed at which the users receive answers to queries via tracking the number posts on the forum.
- **OG-4:** Increase USC brand via estimating the increase in the number of active users.
- **OG-5:** Reduce workload of USC staff to answer students question by providing an alternative way to answer the questions.

3.2.4 Constraints

CO-1: Zero Monetary Budget: The COTS or NDI/NCS should be free of charge.

CO-2: Only Web-based platform : Users can only use the platform via web right now.

CO-3: Only non-negative points on a post: Points on each post cannot be negative.

3.2.5 Relation to Current System

Table 4: Relation to Current System

Capabilities	Current System	New System
Roles and Responsibilities	 USC Students ask, and answer question tutoring USC Alumni provides information about career USC Faculty provides USC information 	 USC Students ask, and answer question tutoring USC Alumni Provides information about career USC Faculty provides USC information Moderator monitoring WAT system IT Staff maintain WAT infrastructure
User Interactions	 Asking other User for a favor Asking USC Alumni for career information Asking USC Faculties for USC information 	 Search for an answer for their question. Posting some question in WAT forum and wait for answers. Redeem gift cards/items from the WAT system
Infrastructure	there are no infrastructures	WebserverDatabase system
Stakeholder Essentials and Amenities	USC studentsUSC AlumniUSC Faculties	 USC students USC Alumni USC Faculties Moderators IT staffs
Future Capabilities	Redemption	Integrate with USC to be able to give more information to the user, and gain more credibility for WAT system and support it with sustainable redemption system.

3.3 Proposed New Operational Concept

3.3.1 Element Relationship Diagram

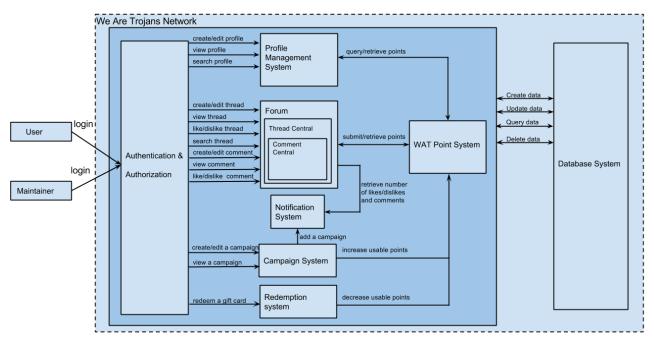


Figure 4: Element Relationship Diagram of WAT system (Architected agile project)

3.3.2 Proposed Business Workflow

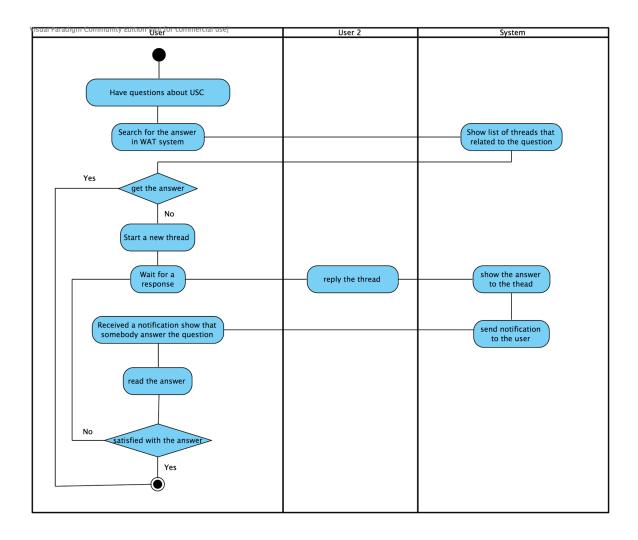


Figure 5: Business Workflow Diagram of WAT System

3.4 Organizational and Operational Implications

3.4.1 Organizational Transformations

- The need to hire moderators to monitor the system
- The reduction in workload of USC faculty that have to answer USC students' questions.
- The need to have some IT personals to maintain We Are Trojans system.

3.4.2 Operational Transformations

- The option for USC students to ask questions in a common system instead of calling USC staff or asking other students in person.
- Using old items that cannot sell in the USC bookstore in a more useful way by allowing We Are Trojans users to redeem WAT Points for it.
- Having a friendly competition among the USC community by using WAT point systems.