

Task 2.2

N4C Framework Overview

Version 0.0

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ABSTRACT

Starting in May 2008, N4C is a 36 month research project in the Seventh Framework Programme (www.cordis.lu/fp7). In cooperation between users in Laponia in the Swedish arctic and the Kočevje region in Slovenian mountain and partners, the project will design and experiment with an architecture, infrastructure and applications in field trials and build two test beds.

This document provides an overview of the framework, guidelines and specifications that are intended to tie the N4C project into a coherent whole. It lists a set of documents that cover the major aspects of the technical, environmental, cultural and gender aspects of the project providing detail of the requirements and practices recommended for the project. These documents are all seen as 'works in progress' that will be updated as the project progresses, so that by the end of the project they form a useful legacy of requirements which the project adhered to. Further versions of this document will be issued referring to updated versions of the components in due course. In the meantime, people accessing these documents are advised to seek the most recent (highest version number) of each document to give an up to date view.

		Document history	
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Dissemination level	
	Level
PU = Public	x
PP = Restricted to other programme participants (including the Commission Services).	
RE = Restricted to a group specified by the consortium (including the Commission Services).	
CO = Confidential, only for members of the consortium (including the Commission Services).	

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1. INTRODUCTION

This document provides an overview of the framework, guidelines and specifications that are intended to tie the N4C project into a coherent whole. It lists a set of documents that cover the major aspects of the technical, environmental, cultural and gender aspects of the project providing detail of the requirements and guidelines recommended for the project. These documents are all seen as ‘works in progress’ that will be updated as the project progresses, so that by the end of the project they form a useful legacy of requirements which the project adhered to. Further versions of this document will be issued referring to updated versions of the components in due course. In the meantime, people accessing these documents are advised to seek the most recent (highest version number) of each document to give an up to date view.

2. FRAMEWORK COMPONENTS

2.1 SYSTEM ARCHITECTURE

The technical architecture of the system to be used in the N4C text beds is described in the System Architecture document. This document is primarily focussed on the DTN infrastructure of the system, but also describes the application and management interfaces of the infrastructure.

Component	Document Title	File name
System Architecture	N4C System Architecture	n4c-wp2-004-sys-arch-04.pdf

2.2 ENVIRONMENTAL, CULTURAL AND GENDER GUIDELINES

The EC 7th Framework Programme imposes a number of general requirements for gender neutrality and overall equality considerations. N4C is committed to abide by these requirements and the scenarios for the test beds that N4C is creating impose a number of additional requirements on the solutions to be adopted. especially because of the environmental constraints arising from the location of the test beds and the desire to support the existing cultural situation rather than force it to adapt to the communications model to be recommended.

Component	Document Title	File name
Requirements for Environment, Culture and Gender	Environment, culture and gender: Framework Guidelines	n4c-wp2-015-env-cult-gen-00.pdf

2.3 MANAGEMENT REQUIREMENTS

The use of DTN in the N4C infrastructure introduces a novel set of requirements for mechanisms to manage the infrastructure and applications. As the subject of DTN network management is still in its infancy, N4C cannot rely on existing management guidelines and systems. Part of the N4C research will encompass the management aspects of the system in cooperation with the network management subgroup of the DTN research Group.

Component	Document Title	File name
Management Requirements	Management Framework	n4c-wp2-016-mgmt-frmwk-01.pdf

2.4 CODE MANAGEMENT

N4C involves the cooperation of a number of partners and the eventual delivery of some public domain code for infrastructure and applications adapted and developed during the project. To ensure that this code is properly managed and made available during and after the project, N4C will maintain a code repository. This document sets out guidelines for this repository. N4C has also decided to adopt a spiral development model whereby a number of different ideas can be evaluated during the testing periods. This proposal is also documented here.

Component	Document Title	File name
Code Management Guidelines	N4C Code Repository Proposal	n4c-tcd-002-code-management-01.pdf