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1 INTRODUCTION

1.1 NAVY MARINE CORPS INTRANET (NMCI)

The NMCI is an Information Technology (IT) initiative and procurement strategy to provide secure, seamless, global end-to-end connectivity for Navy and Marine Corps Warfighting and business functions. When completed, NMCI will consolidate Navy and Marine Corps computer networks into a single, secure, enterprise-wide managed service for voice, video, and data information exchange.

[Figure 1-1](#) depicts a detailed overall design diagram of the Navy NMCI architecture. It shows the logical and physical architectures. It represents the architecture by subcomponent and includes conceptual issues and items relating to security, management functionality, and deployment.

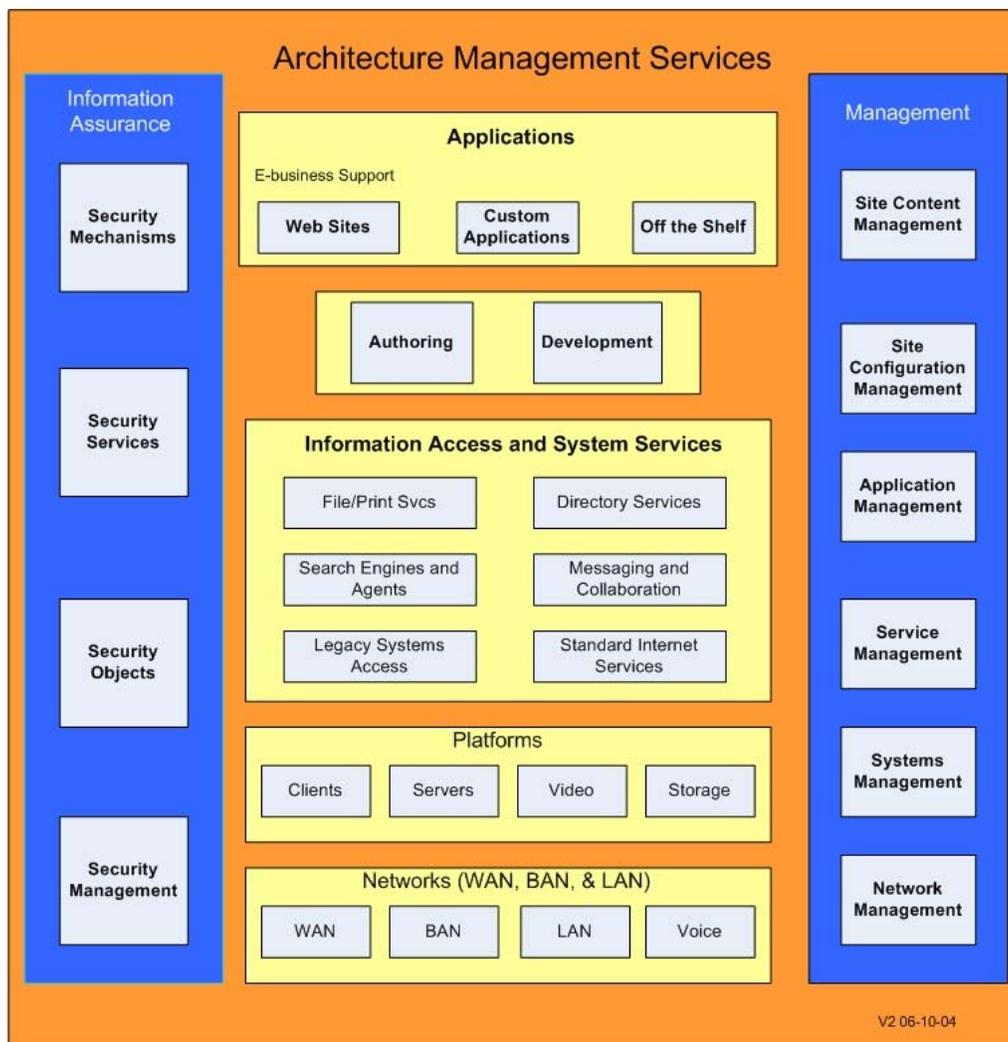


Figure 1-1 Architecture Management Framework

NMCI program represents a major IT initiative to consolidate a multitude of Navy and Marine Corps base- and installation-specific computer networks into a single intranet network for both classified and unclassified applications. This initiative draws heavily on “industry best practices and procedures.” The Navy and Marine Corps have been challenged to adapt these industry procedures to the operational and administrative requirements of their services.

As part of the initial NMCI seat deployment process, the Navy and Marine Corps undertook efforts to identify and minimize the number of applications on Navy and Marine Corps administrative networks. The intent was to provide a commonality of function and to minimize training requirements. The rollout then installed the identified legacy applications onto the new NMCI.

Legacy applications are those applications previously running on the various administrative networks of the Navy. For the context of this guide, a release includes the introduction of a new (emerging) application or a change to an existing application. A change may be a software patch, fix, update, upgrade, modification, revision, or new version to an existing application that operates within NMCI.

1.2 MARINE CORPS COMMUNITY OF INTEREST (COI)

Some COIs (e.g., the Marine Corps) require the NMCI architecture to provide a separate enclave that rides the overarching NMCI. This COI enclave allows security management and operational direction. Boundary 2 (B2) firewall suites separate the COIs from NMCI at large. These B2 firewalls enable implementation of a security domain, similar to establishing a service-wide COI and support implementation of unique security requirements. B2 firewall suites providing this function mirror the NMCI solution for meeting Boundary 1 (B1) security requirements.

Bottom line: The Marine Corps will retain autonomous security management and operational control over Marine Corps Enterprise Network (MCEN), to include the NMCI.

1.3 APPLICATION MANAGEMENT

Three main processes govern Application Management:

- [Legacy Applications Transition \(LAT\)](#)
- [NMCI Release Management \(NRM\)](#)
- [Legacy Systems Transition \(LST\)](#).

1.3.1 Legacy Applications Transition (LAT)

As defined by the NMCI contract, a legacy application is “An existing customer software application that is not included in the NMCI standard seat services or the Contract Line Item Number (CLIN) 0023 catalog.” Applications are in use today by people performing the mission

or business of the DON. Legacy applications are NOT part of the standard seat services (also known as Gold Disk) provided by EDS.

The NMCI Legacy Application Transition Guide (LATG) provides the detailed guidance to transition Department of the Navy (DON) legacy applications into the NMCI environment. The transition of legacy applications is beyond the scope of the NMCI Release Development and Deployment Guide (NRDDG).

More information:

http://www.nmci-eds.com/legacy_applications_transition_guide.pdf

1.3.2 NMCI Release Management (NRM)

The NRM provides a structured approach to software application management across the enterprise and enforces the necessary management and discipline needed to maintain and control enterprise size, configuration, and security of Navy and Marine Corps applications.

The purpose of the NRM is to eliminate the proliferation of unnecessary, redundant, and excess applications that are inherent in the legacy system today. As part of the NRM, all releases are subject to an executive review and approval for appropriateness within the enterprise. The many steps of the NRM must be completed prior to approving the development and subsequent deployment of a release within NMCI. New (emerging) or updated applications are part of overall Navy and Marine Corps Enterprise application management and are reviewed in accordance with strict guidelines contained in the NRM.

1.3.3 Legacy Systems Transition (LST)

The LST transitions legacy systems to the NMCI environment while maintaining or improving system performance and availability. This process facilitates a critical step in achieving the DON end-state goal of one intranet for Continental United States (CONUS) shore installations. As legacy systems transition to NMCI and legacy networks are eliminated, the DON gains visibility into applications, systems, and infrastructure management at an enterprise level.

1.4 NAVY ENTERPRISE AND NMCI PROCESS GUIDES

[Figure 1-2](#) illustrates use of the NMCI Process Guides throughout the lifecycle of the NMCI program. The following paragraphs briefly summarize each guide listed within the timeline.

Navy Enterprise and NMCI Process Guides

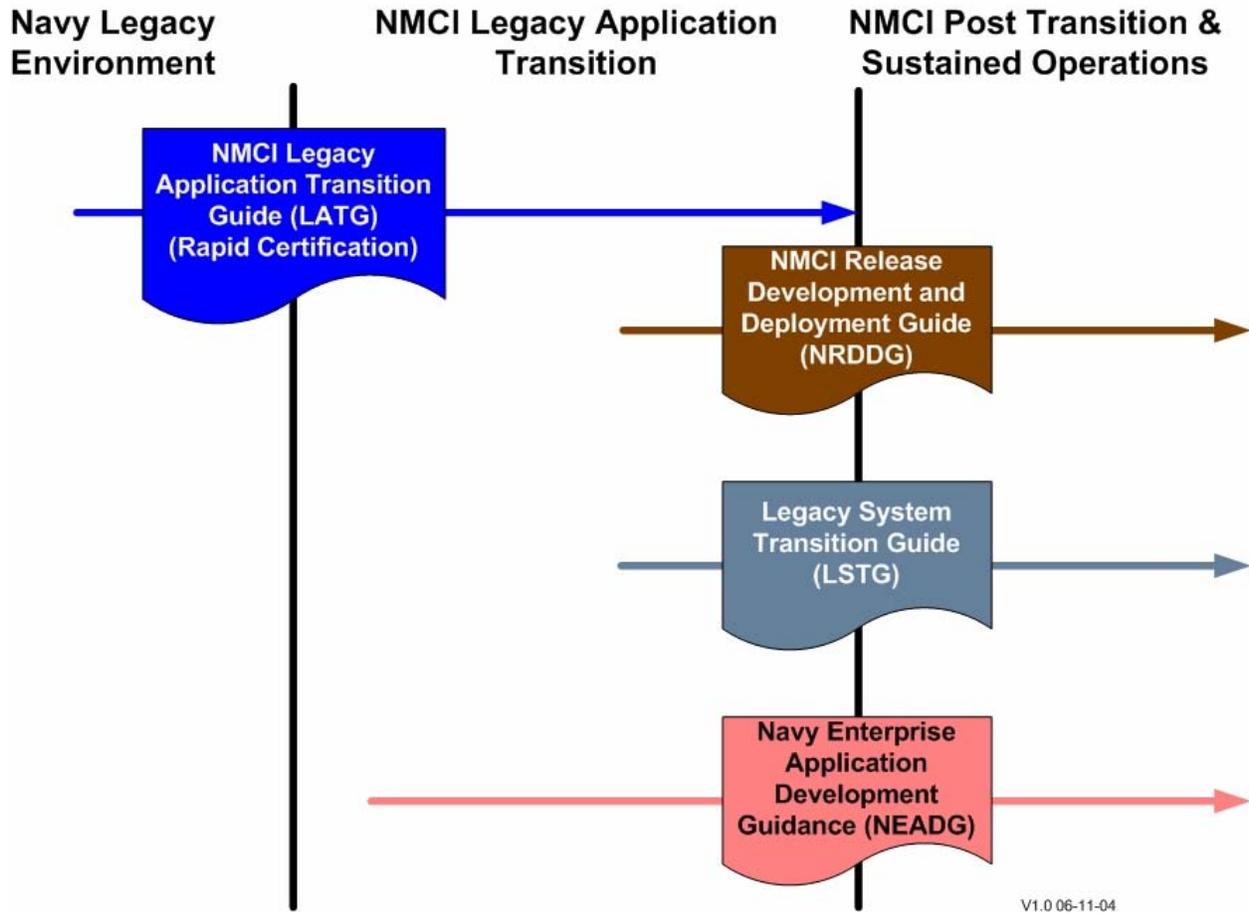


Figure 1-2 Timeline for NMCI Process Guides

1.4.1 Legacy Application Transition Guide (LATG)

http://www.nmci.navy.mil/Primary_Areas/AppDevForum/Files/LATG.pdf (3.8M)

The LATG presents a complete baseline overview of the Legacy Applications Rapid Certification Phase of the Legacy Applications Transition Process. It is for NMCI customers involved with transition activities. Electronic Data Systems (EDS) and Government program management personnel worked in close cooperation to design the processes, procedures, and policies described in the LATG. The LATG describes in detail the roles and responsibilities of those organizations and positions involved in transitioning Legacy Applications through the Rapid Certification Phase.

1.4.2 Navy Enterprise Application Development Guidance (NEADG)

http://www.nmci.navy.mil/Primary_Areas/AppDevForum/Files/NEADG_readonly_2.0.pdf
2.0 Draft, June 2, 2003 (3.5M)

The purpose of the NEADG is to provide detailed information and direction to Developers tasked with migrating applications, content, and services into the Department of the Navy (DON) Enterprise Information Technology (IT) Environment. This effort seeks to align current practices used in software development within the Navy and Marine Corps with the best practice vision embraced by the DON and the Department of Defense (DoD). Their vision is a web-enabled enterprise application that is extensible, scalable, and open in its use of current standards and leading edge technologies. Additionally, the NEADG seeks to present guidance information in a way that is easily searchable manually and by machine and that adds value to information consumers by aligning the guidance to their specific activities and roles. Mapping constituent guide content to searchable metadata categories allows distinct renderings or views of the original data. The web-based platform enables the collection and packaging of content from other guides focused on the overall purpose of guiding Developers in transitioning of applications toward the DON Enterprise IT Environment.

1.4.3 NMCI Release Development and Deployment Guide (NRDDG)

http://www.nmci.navy.mil/Primary_Areas/AppDevForum/SiteTree/2Resources_Tools/Guides_NRDDG

The NRDDG is a consolidated source of information, guidance, and direction to Developers and application owners who build and/or modify applications, as well as the acquirers of applications intended for use within NMCI. As a supplement to the NEADG, the NRDDG supports the Developer in the development and deployment of releases to operate within the Navy Marine Corps Intranet (NMCI). For web-based application guidance, the user should refer to the NEADG, the Task Force Web (TFW), and the Navy Enterprise Portal (NEP). NRDDG fulfills an intermediary requirement in bridging the gap between present application development cycles underway by the Developers and the target state of web-enablement of all Navy Enterprise applications under the TFW initiative.

1.4.4 Legacy Systems Transition Guide (LSTG)

http://www.nmci.navy.mil/Primary_Areas/AppDevForum/Files/LSTG.pdf (1.02M)

The LSTG provides both an approach and the associated processes to successfully transition systems from legacy environments to the NMCI environment while maintaining or improving system performance and availability. The LSTG provides the site representative, the Developer, and the Program of Record-Program Manager (POR-PM) with the unique processes, tools/templates, and documentation guidelines to plan and execute the transition of their respective systems to the NMCI environment.

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