



***NMCI Release,  
Upgrades and Patches  
& the NRDDG***

*Don Biedermann, SPAWAR PMW-164  
(858) 826-5299  
don.biedermann@navy.mil*

# Three Steps to Placing a Release in NMCI

## 1. Authorization

FAM Authorization



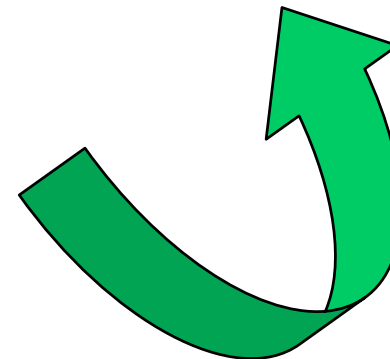
## 2. Development

Develop the Release for NMCI



## 3. Deployment

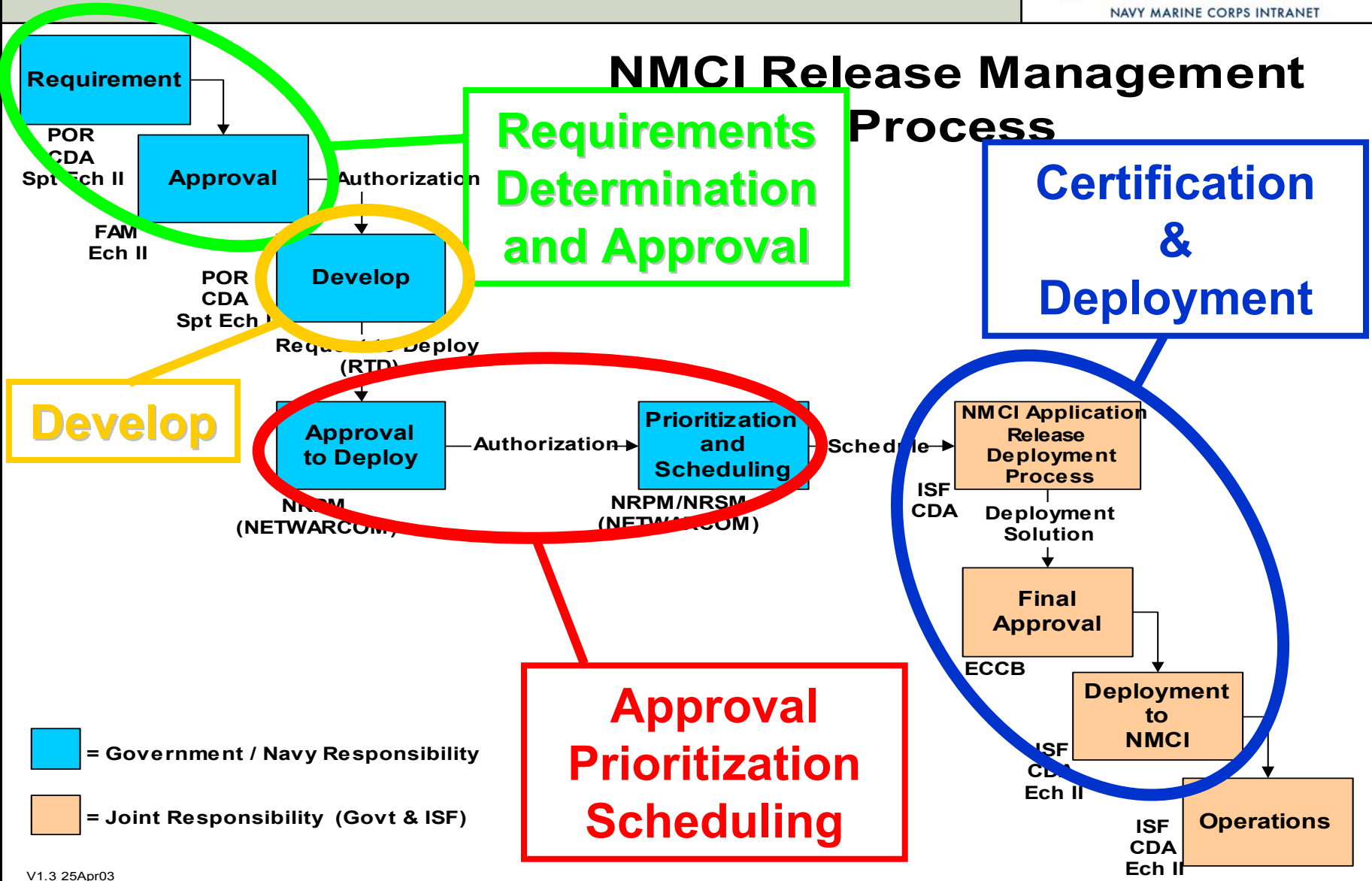
Request To Deploy (RTD)  
Deploy the Release in NMCI



*A New Way of Doing Business*

# Release Management Process

## NMCI Release Management Process



= Government / Navy Responsibility  
 = Joint Responsibility (Govt & ISF)

## Requirements determination

- CDA, Echelon II, POR determine need for release

## DADMS questionnaire

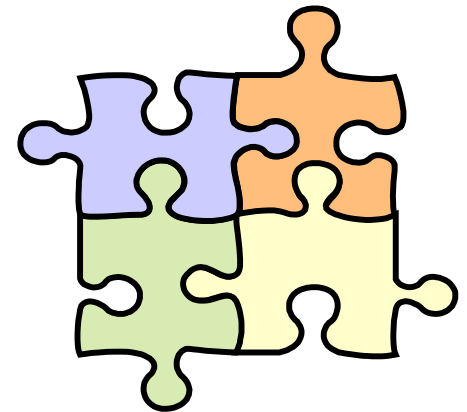
- DoN Application Database Management System website

## FAM review and approval

- DADMS

## Authorization to develop

- DADMS



**Get the Authorization**

# *Development*

## ❑ Navy IO (NADTF) Ruleset

- Standard set of rules for applications within NMCI.

## ❑ Defense-In-Depth

- Boundary Protection
- Public Key Infrastructure (PKI)
- Server Security
- Desktop Security



## ❑ Microsoft Development Standards

- Windows 2000
- Active Directory
- GPO
- Windows Installer (MSI)
- Application Programming Interfaces (API)



## ❑ Operating Environment

- Desktop Lockdown Policy
- Gold Disk Interoperability
- Browser – MS Internet Explorer & Netscape Navigator



## ❑ Software Distribution

- Automated – Novadigm Radia
- Advanced Packager



## ❑ **NMCI Seats are Near Consumable Resources**

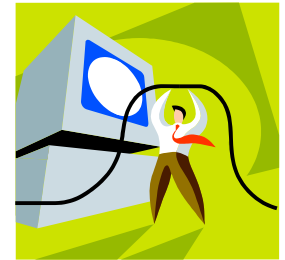
- Quickly Replaceable IT Resources
- Only configuration or temporary data should be stored on the seat
- Application data should be stored on Network File Shares

## ❑ **Enterprise Standards for Client/Server Applications**

- Use DNS Naming Standards vice Static IPs

## ❑ **Compliant with Security Protocols**

- NMCI Infrastructure Communicates over IP
- SPX, IPX, NetBIOS protocols are not supported in NMCI
- Standard acceptable Ports are listed in the NRDDG



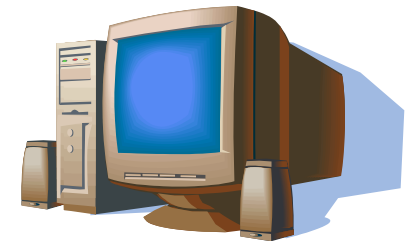
## ❑ **Build your Release Deployment Plan**

- *Things that are planned, typically go smoother!*

## ❑ **MS Access is not Intended for Multi-user Utilization**

## ❑ **NMCI is a Single Homogenous Environment**

- Think Enterprise Development



**Read the NRDDG!**

# *Deployment*



## Annual Application Release Deployment Plan

- Planned Business Changes
- Plan at least one year ahead
- Part of the Annual Technology Refresh Plan-- Full Accreditation / ATO Required
- Versions & major releases
- No more than 2 normal releases per year

## Planned Point Release Plan

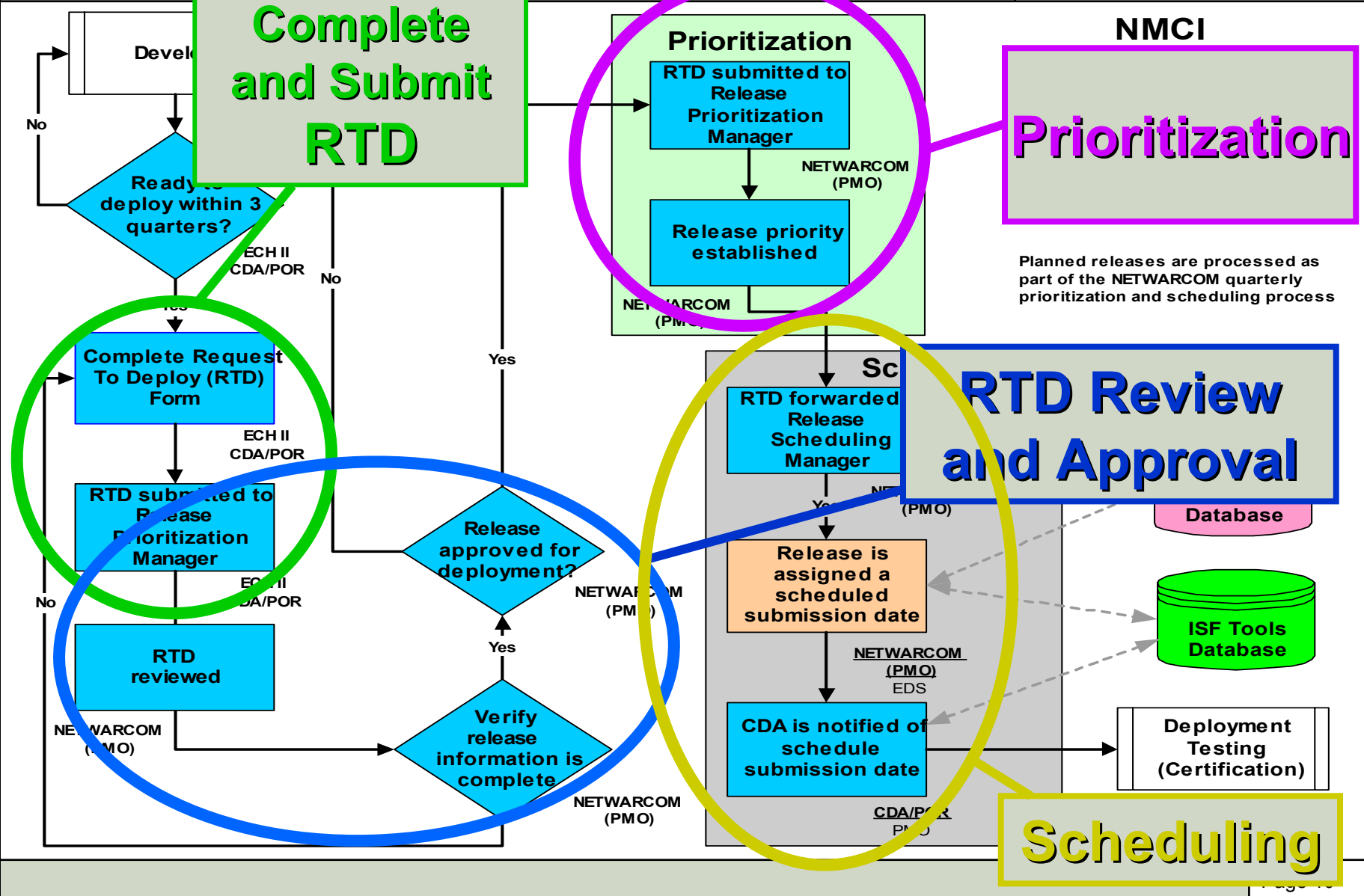
- Business Changes, Technical Changes
- Plan with six month notice
- Done quarterly with no more than 4 per year
- IA Assessment w/ Monthly Report
- Minor changes, patches, modifications, upgrades, updates

## Emergency / Urgent Release Plan

- Not planned, Technical Changes
- IA Assessment w/ Monthly Report
- Minor changes, patches, modifications, fixes
- Runs normal process with urgent priorities assigned in a shortened timeframe

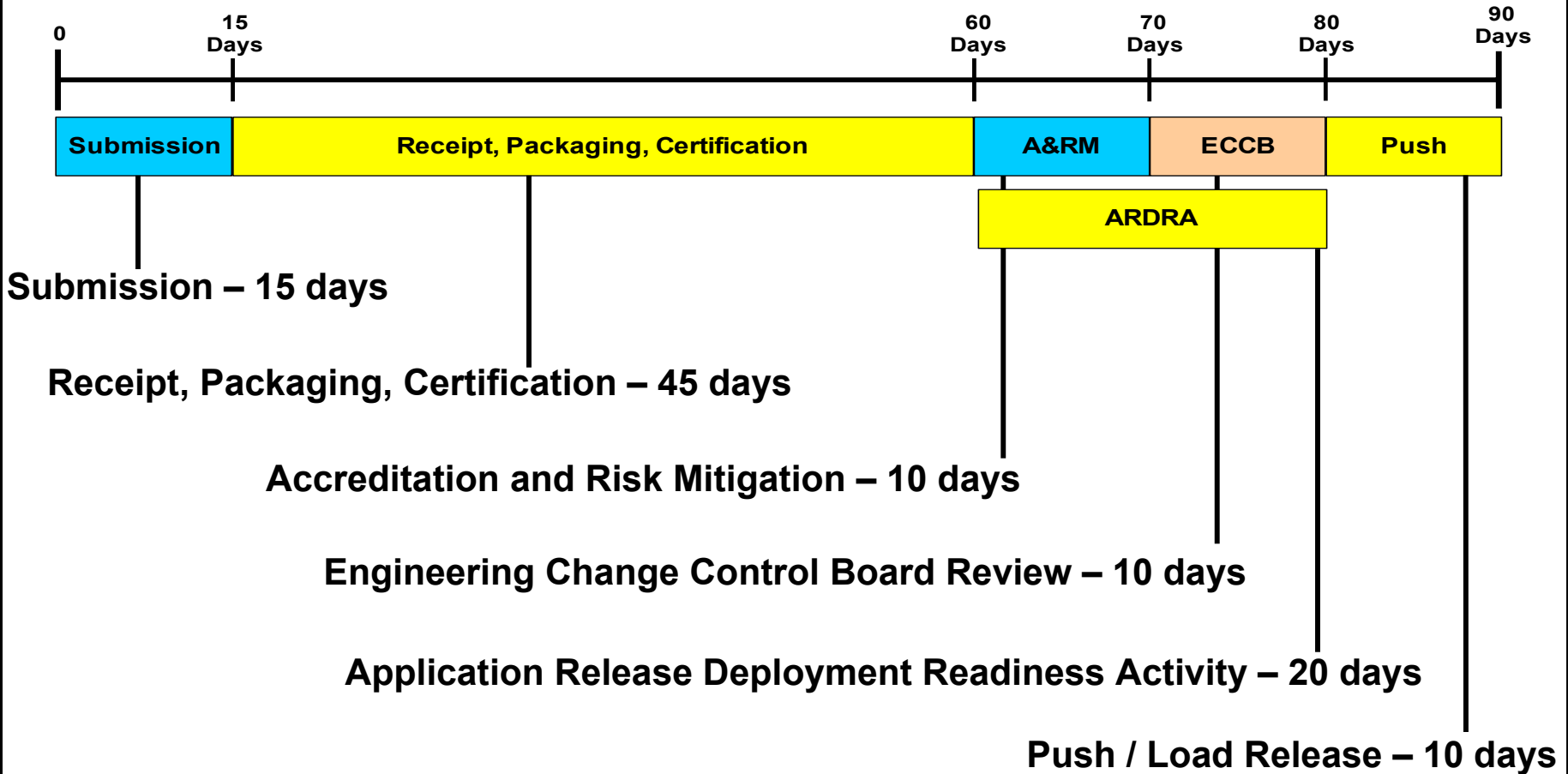
- Entry Point for the Release Deployment Process**
- Purpose of RTD**
  - **Approval to Deploy**
  - **Prioritization for Deployment**
  - **Scheduling of Deployment**
- Who uses: Central Design Activities, Program of Record, Echelon II**
- When to use: Release is near completion of development and is prepared to deploy within next three quarters**
- Where to Submit: NMCI Release Prioritization Manager (NRPM) (NETWARCOM)**

# Planned Release Authorization, Prioritization and Scheduling Process



# Release Deployment Timeline

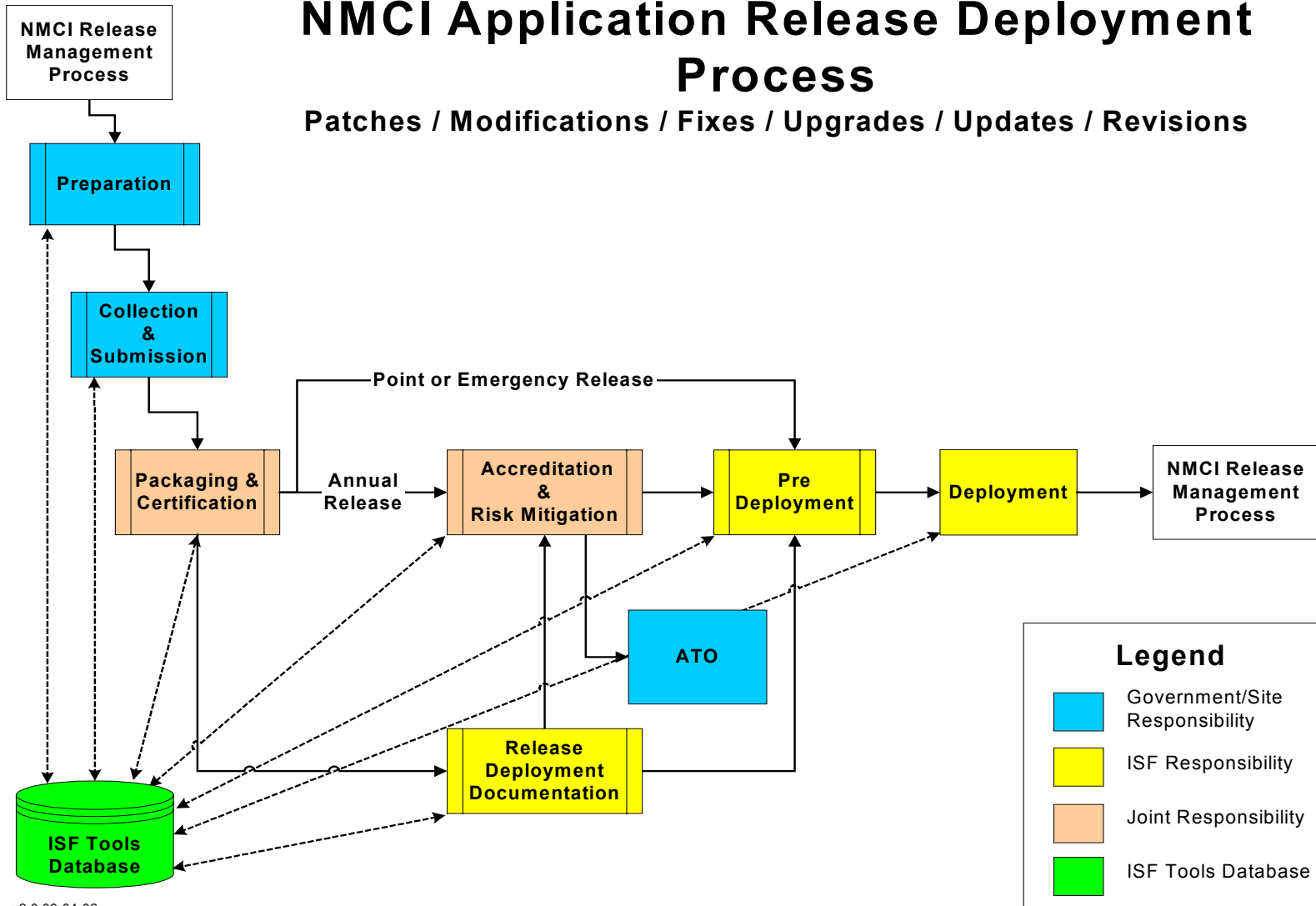
## 90 Day Notional Timeline



**Disciplined Approach to Deployment**

## NMCI Application Release Deployment Process

Patches / Modifications / Fixes / Upgrades / Updates / Revisions



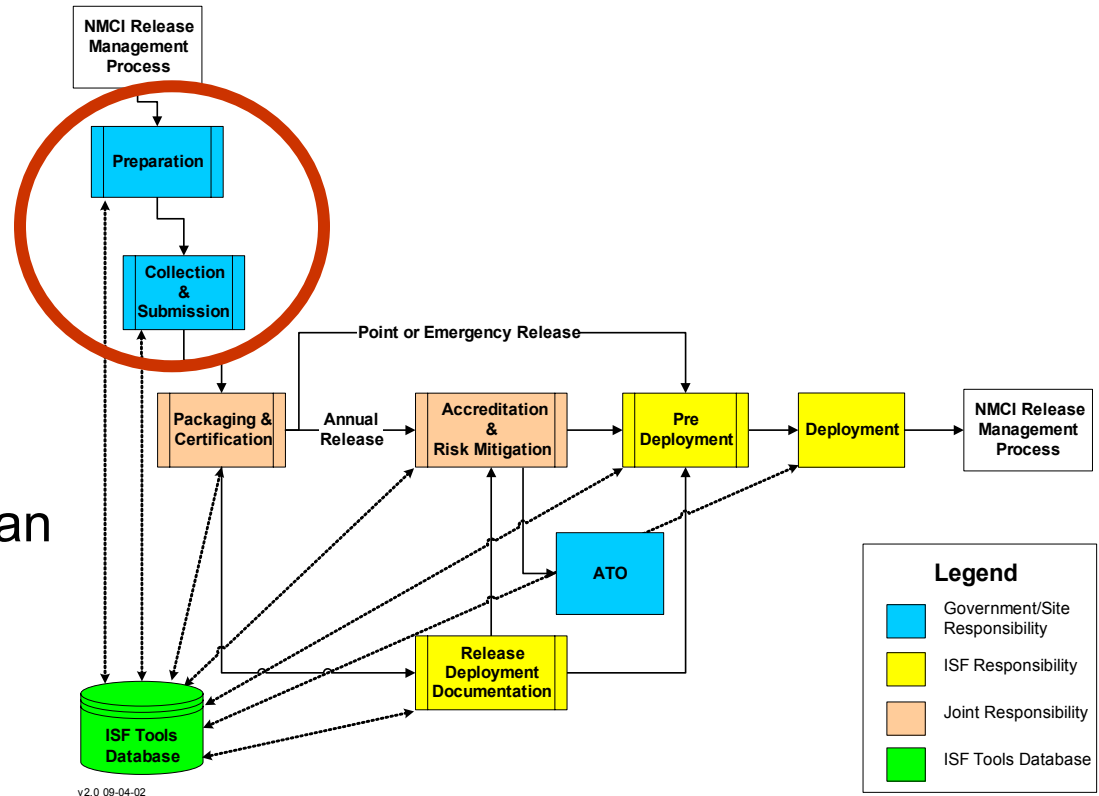
v2.0 09-04-02

## Preparation

- Release Deployment Plan
- Precertification

## Collection & Submission

- ISF Tools Database entries
- Collect Release Media and Documentation
- Submit to ISF



# Release Deployment

## ISF Tools Database

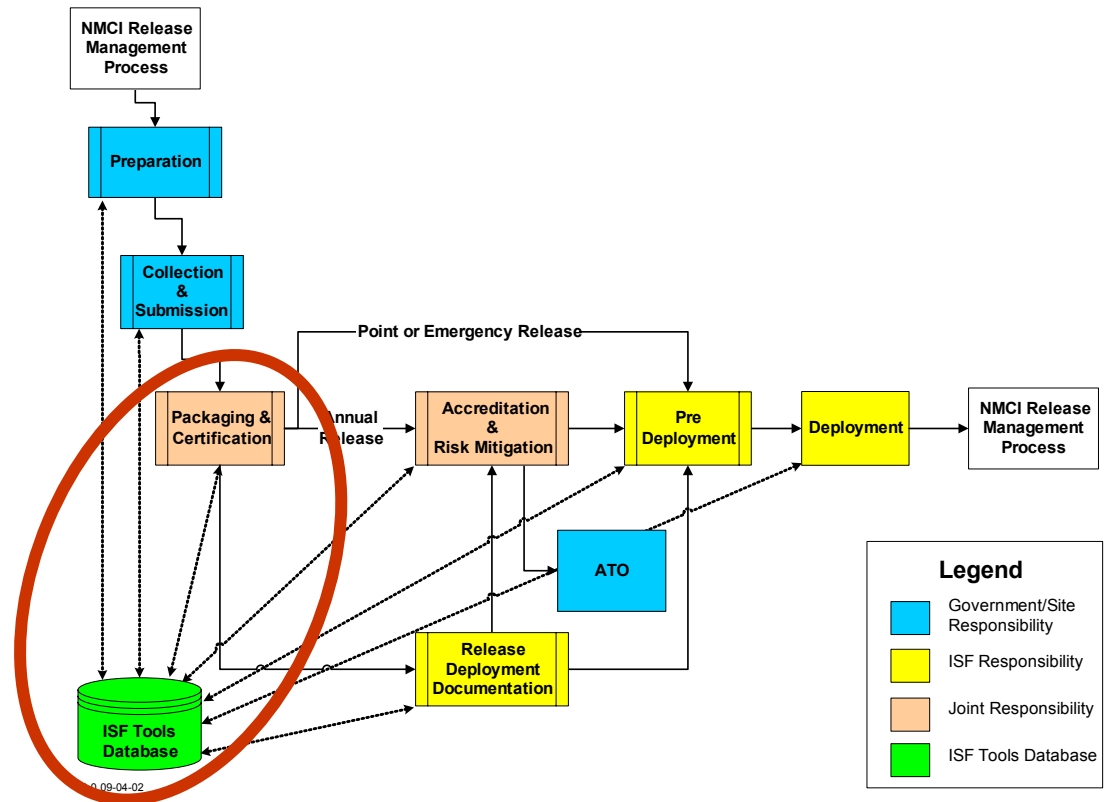
## Packaging

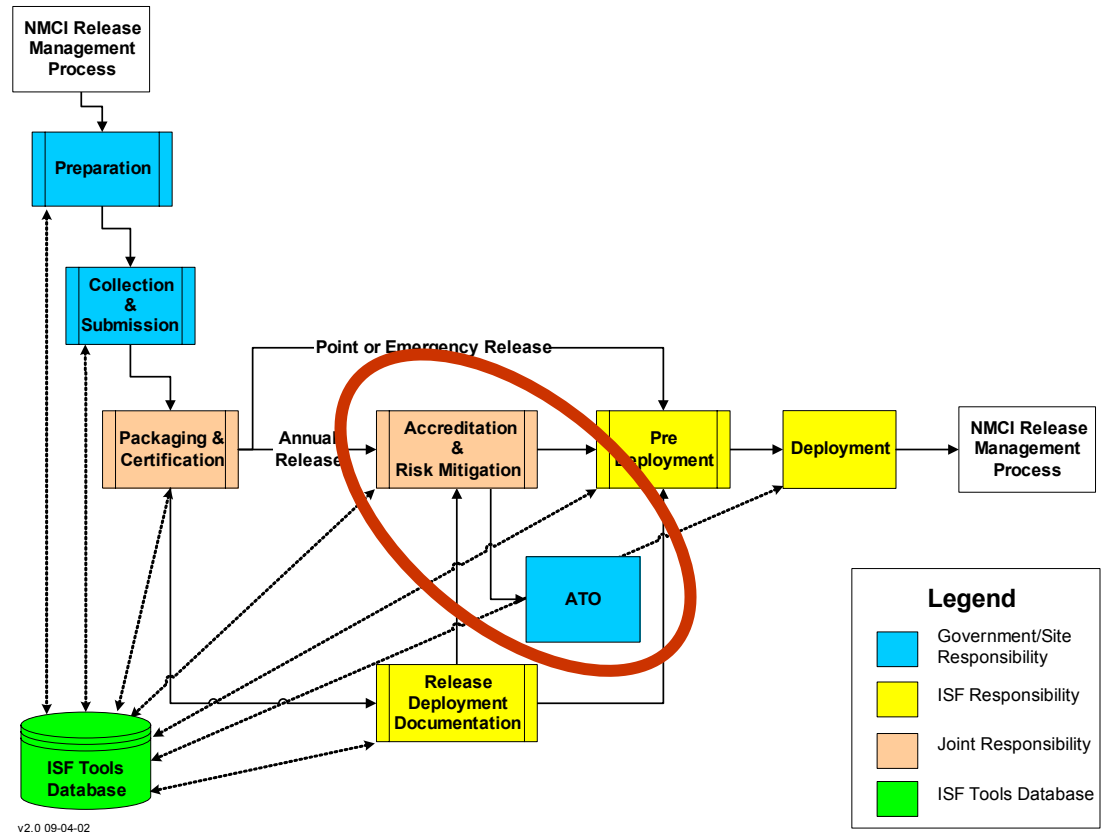
- Novadigm Radia

## Testing

- AIT Lab
- PIAN

## Certification





## □ Accreditation & Risk Mitigation

- IA Review & Risk Assessment of **All** Releases
- Annual Release requires Full Accreditation and ATO

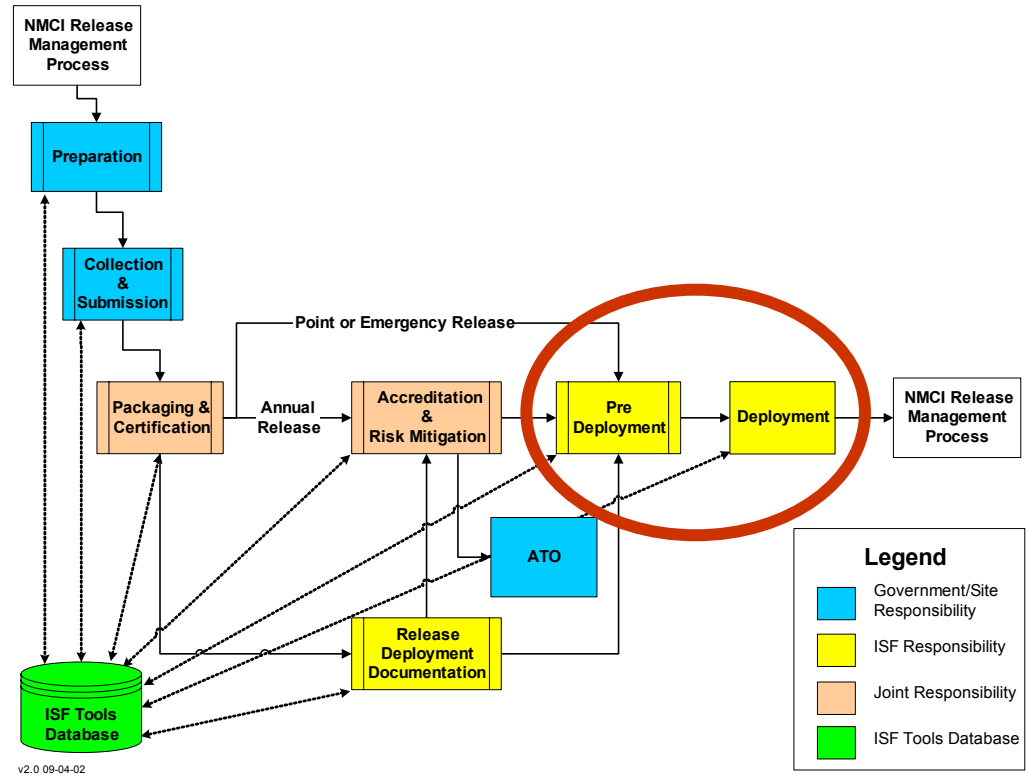


- Predeployment
  - Finalize Release Deployment Plan
  - Release Prepared for Deployment

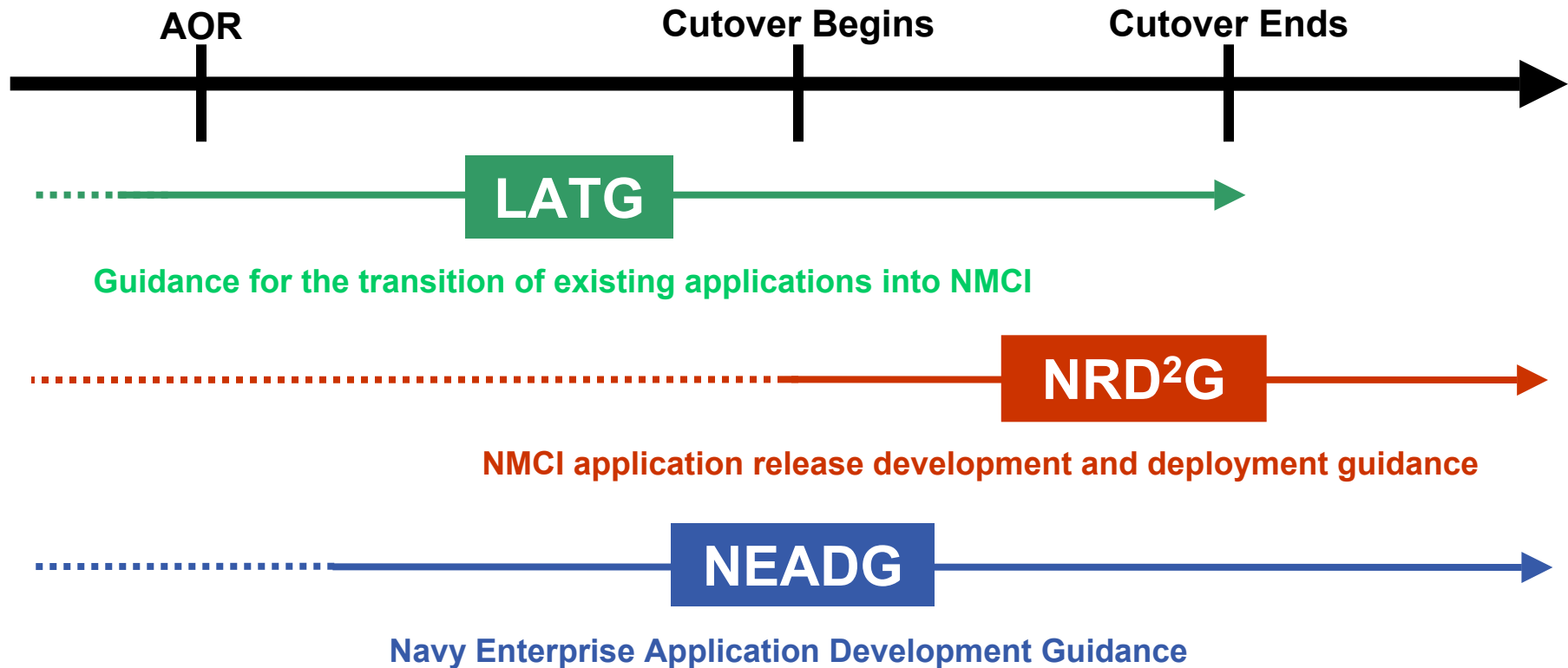
- Application Release
  - Deployment Readiness Activity (ARDRA)

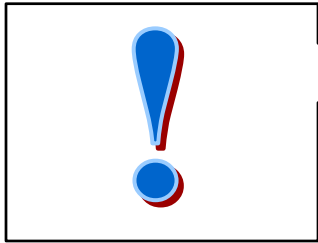
- ARDRA used when needed

- Deployment
  - Release Deployment Plan



## Guidance for Application Transition, Development and Deployment





NMCI

NAVY MARINE CORPS INTRANET

*Read the*  
**NRDDG**

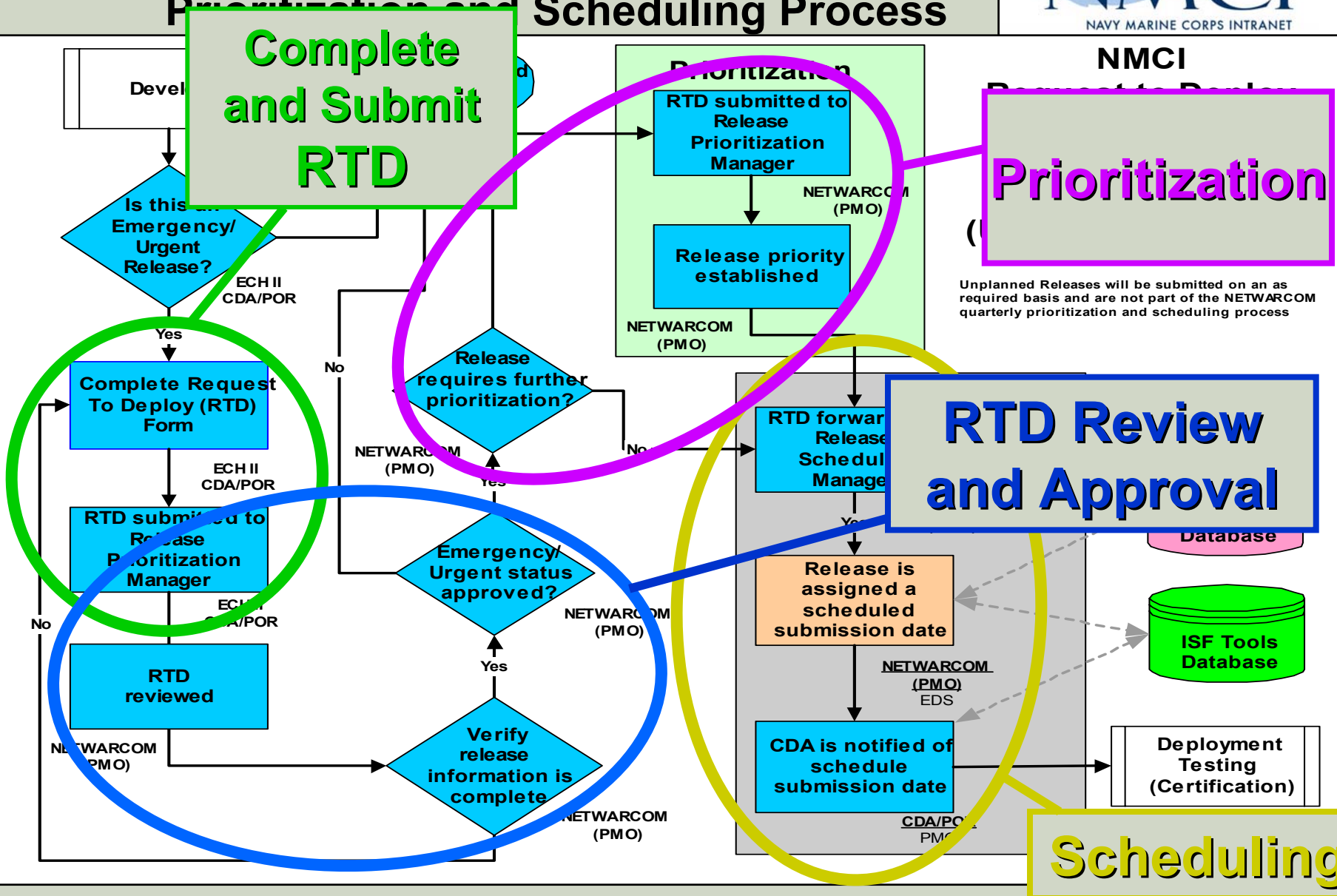
# NMCI

NAVY MARINE CORPS INTRANET



# ***Backup Slides***

# Un-Planned Release Authorization, Prioritization and Scheduling Process



**Complete and Submit RTD**

**Prioritization**

RTD submitted to Release Prioritization Manager

Release priority established

**Prioritization**

Unplanned Releases will be submitted on an as required basis and are not part of the NETWARCOM quarterly prioritization and scheduling process

**RTD Review and Approval**

**Scheduling**