



# Chapter 5: Release Management

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# Software Release Plan (1)

## ISO/IEC 20000 standard

- Software release planning is all about deciding the desired schedule of assorted software release dates and making sure to meet that schedule.
- It basically involves planning, managing, and controlling a software development lifecycle through the stages of developing, **testing**, deploying, and supporting the software release.
- The primary goal of software release planning is to ensure the quality, efficiency, and speed of software delivery.



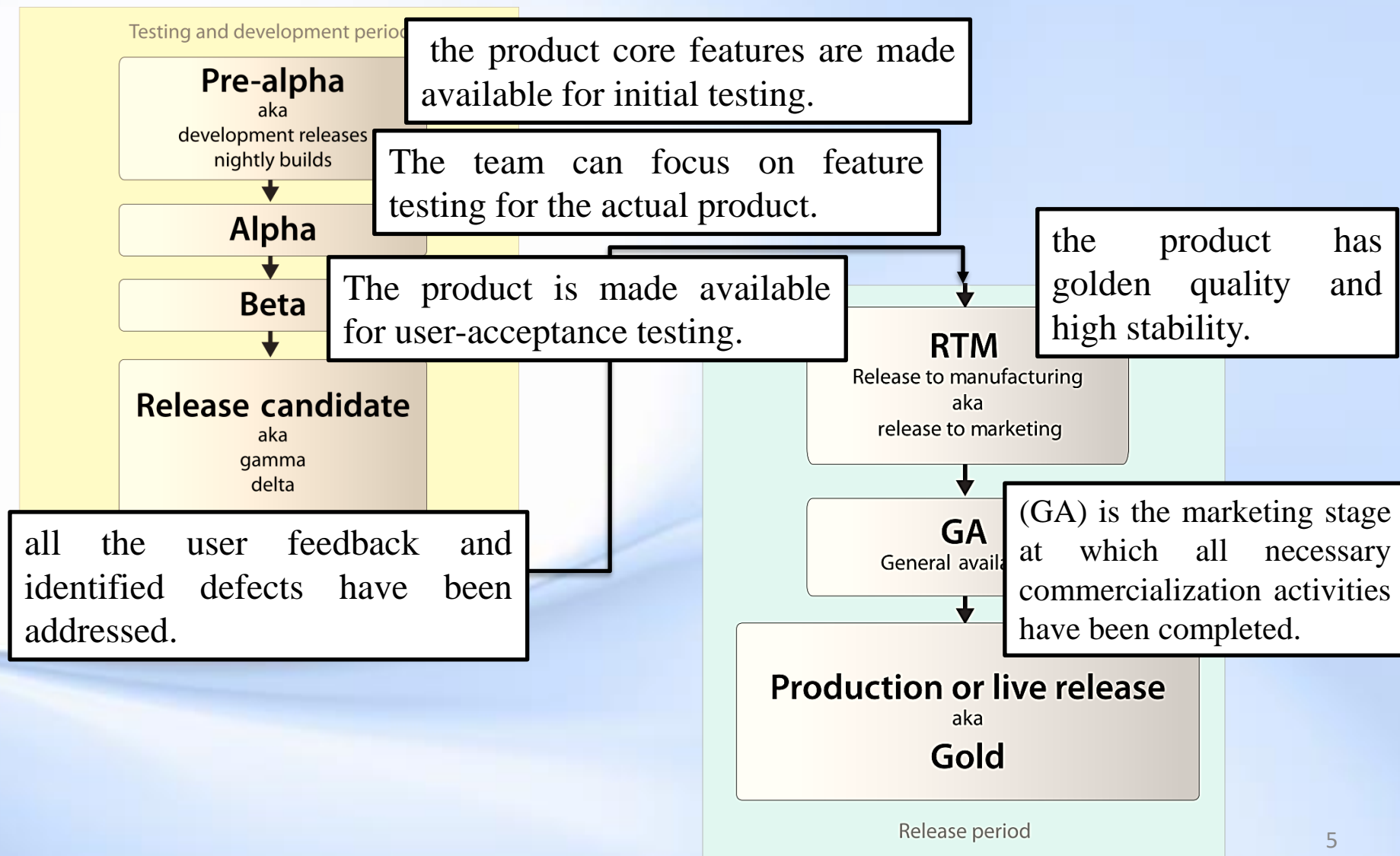
## Software Release Plan (2)

Why is it Important to Plan a Software Release?





# Software Release Life Cycle (SRLC)





# Types of Software Releases (1)

- **Major release:**
  - ✓ A major release introduces wide-ranging changes to the existing software version, including new features to improve the user experience.
- **Minor release:**
  - ✓ A minor release introduces small improvements to the software's functionality. However, changes or modifications are made to existing features instead of the release of new key features.
- **Emergency fixes**
  - ✓ As the name suggests, emergency fixes are reserved for urgent issues that may impact the user experience and require immediate attention.



## Types of Software Releases (2)



1.3.5

X.Y.Z

### Major Version

Incremented whenever major changes are made like architectural change.

### Minor Version

Incremented whenever minor changes are made which doesnot breaks the API like new feature

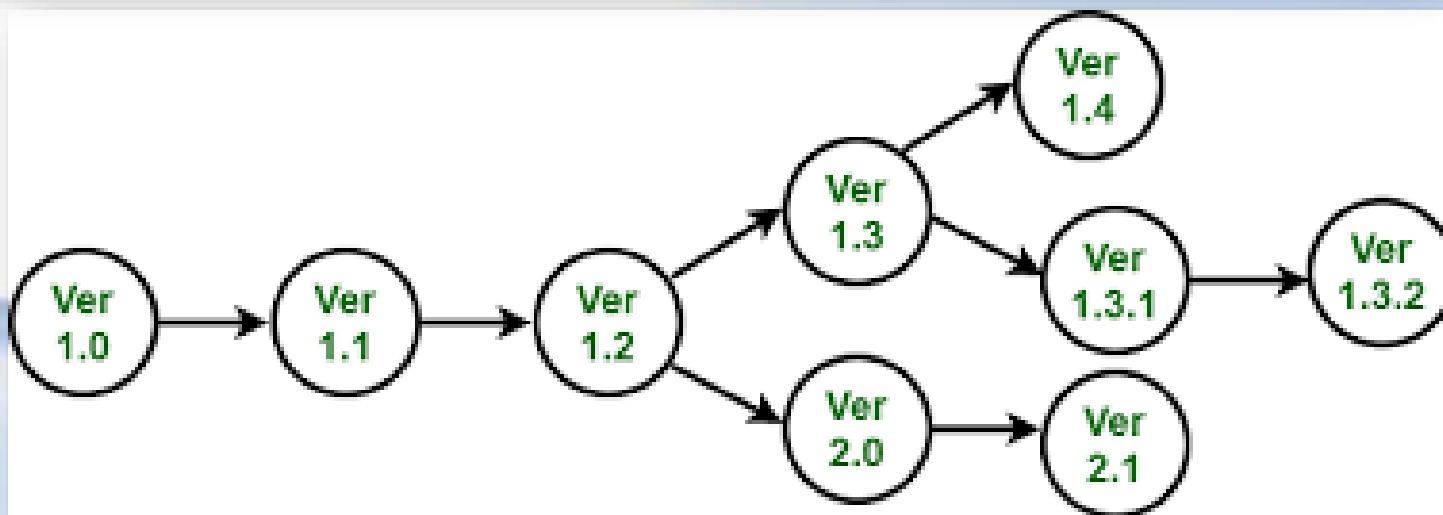
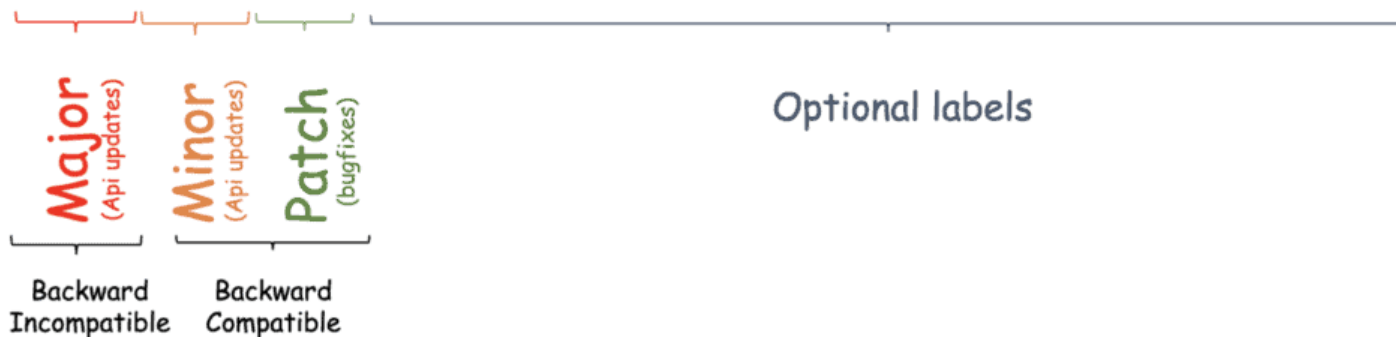
### Patch Version

Incremented with bug fixes



## Types of Software Releases (3)

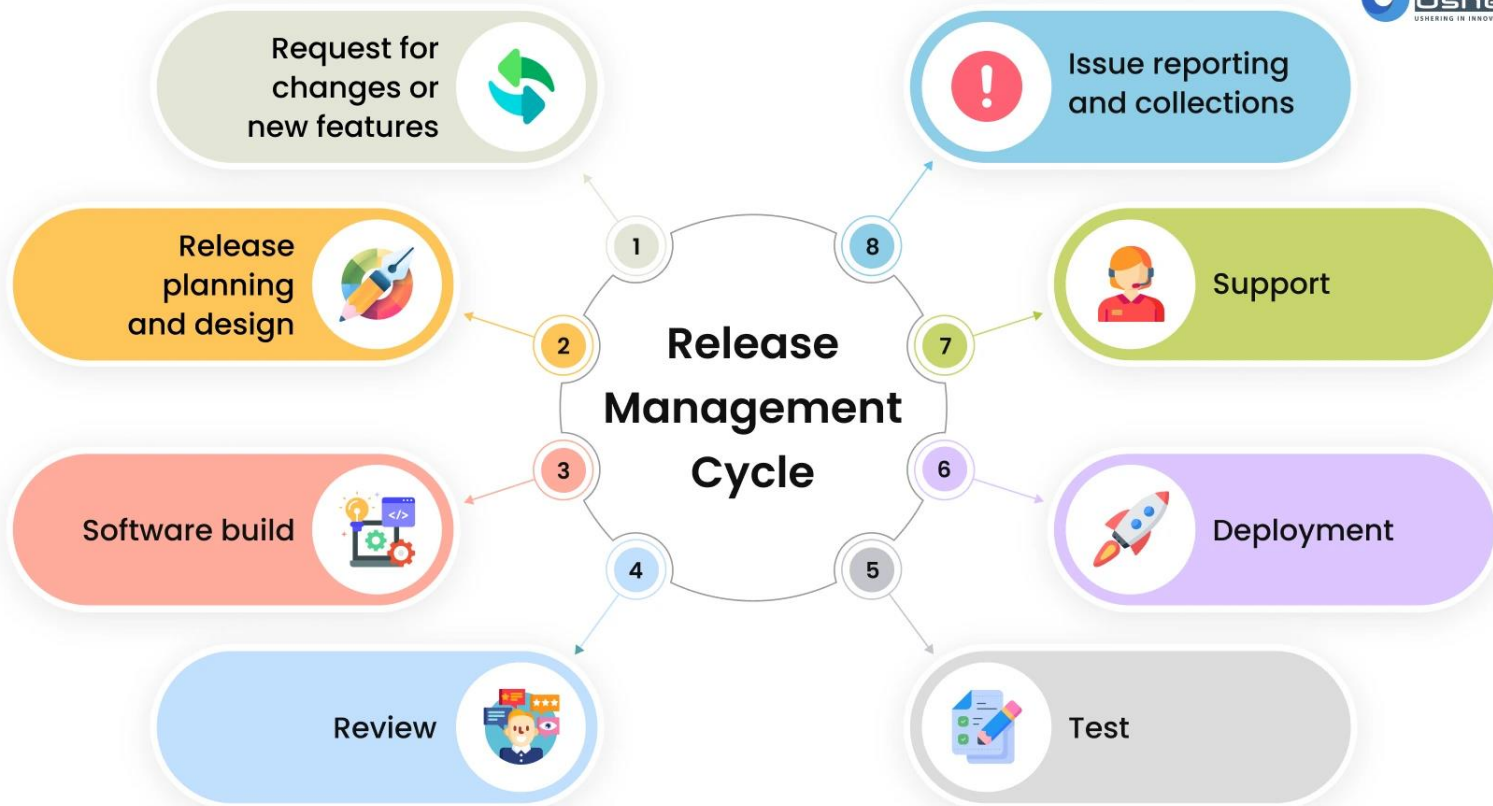
**X.Y.Z-pre-release+build**







# Release Management



<https://www.sciencedirect.com/topics/computer-science/software-release>



# Release Management Tools

## Top 5 Release Management Tools



**ClickUp**  
**Azure Pipelines**  
**Jira**  
**Chef**  
**Ansible**  
**Plutora**  
**Spinnaker**  
**Octopus Deploy**  
**Digital.ai**  
**Release**  
**Jenkins**

**Features that are essential for continuous delivery success:**

1. Whiteboards for brainstorming and ideation
2. Collaborative docs for SOPs, project briefs, and internal/external communications
3. Team and individual workload views to align with the development plan
4. Dependencies and time estimates for task assignments
5. Spaces to separate team workflows but still cross-collaborate as needed
6. Automations to reduce or eliminate the manual effort required to perform simple tasks
7. dashboards to view metrics in one place
8. Ongoing product support



## Practice 1

### Project Management Tool

- Choose five top tools and introduce them
- Pros/Cons of tools
- Trial Version?
- Work with them
- Prioritize based on your index
- Your Reference



1402/12/07





**End of Session 6**

**Any  
Question?!**





**THANKS FOR  
YOUR  
ATTENTION**