

SCSD2613

System Analysis and Design



TOPIC VI

Systems Implementation

Part Three: Installation and Documentation



MAJOR TOPICS


SYSTEM IMPLEMENTATION

- System implementation process


SYSTEM CONSTRUCTION (CODING) & TESTING

- System construction
- Types of system testing

INSTALLATION

- Types of system installation
 - Planning the installation
- 

DOCUMENTING THE SYSTEM

- Generic guidelines
- 

TRAINING AND SUPPORT

- Types of training
- Support

ORGANIZATIONAL ISSUES

- Factors
- Security issues
- Project closure

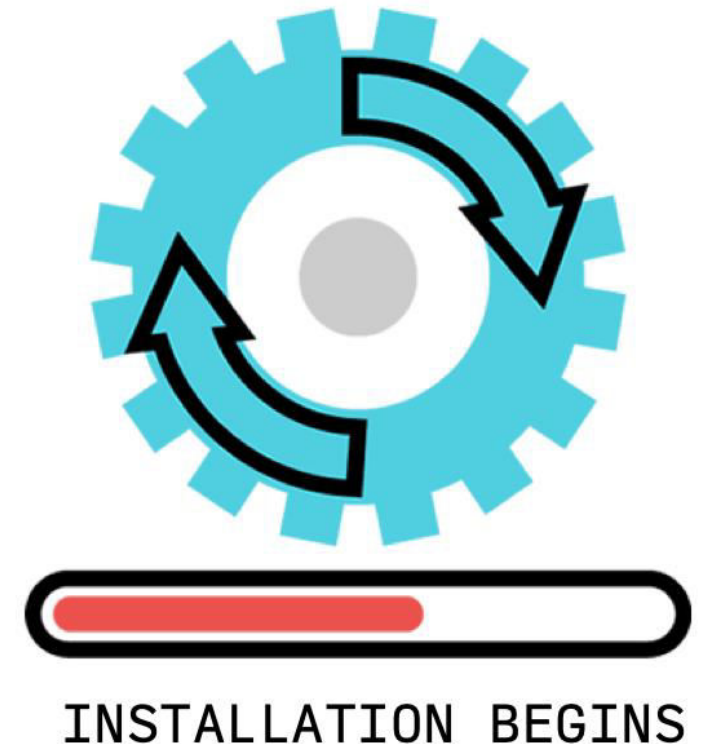
■ MAJOR TOPICS

INSTALLATION

- Types of system installation
- Planning the installation

■ INSTALLATION

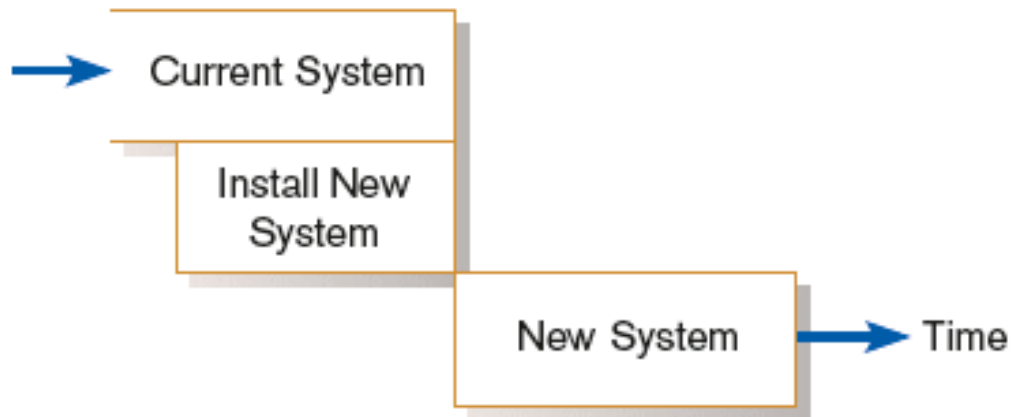
- Installation: the organizational process of changing over from the current information system to a new one.
- It can be involved three important steps:
 - Software installation.
 - Hardware installation.
 - Data conversion.
- Four installation strategies:
 - Direct Installation
 - Parallel Installation
 - Single-location installation
 - Phased Installation



INSTALLATION STRATEGIES

■ DIRECT INSTALLATION

- Changing over from the old system to a new one by turning off the old system when the new system is turned on



PROS

- No duplication of effort for the users.
- No transition costs.
- Learning advantage.
- Immediately benefits.



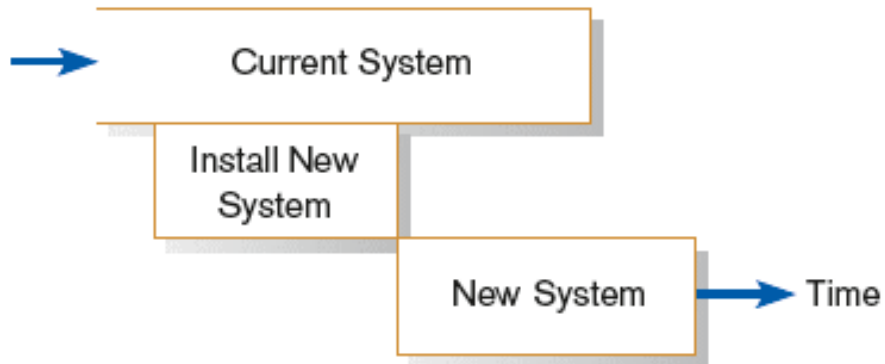
CONS

- High risk.
- Cannot compare results with the old.
- Sense of user insecurity



PARALEL INSTALLATION

- Running the old information system and the new one at the same time until management decides the old system can be turned off



PROS

- Low risk.
- Sense of user insecurity.
- Ability to compare results with the old



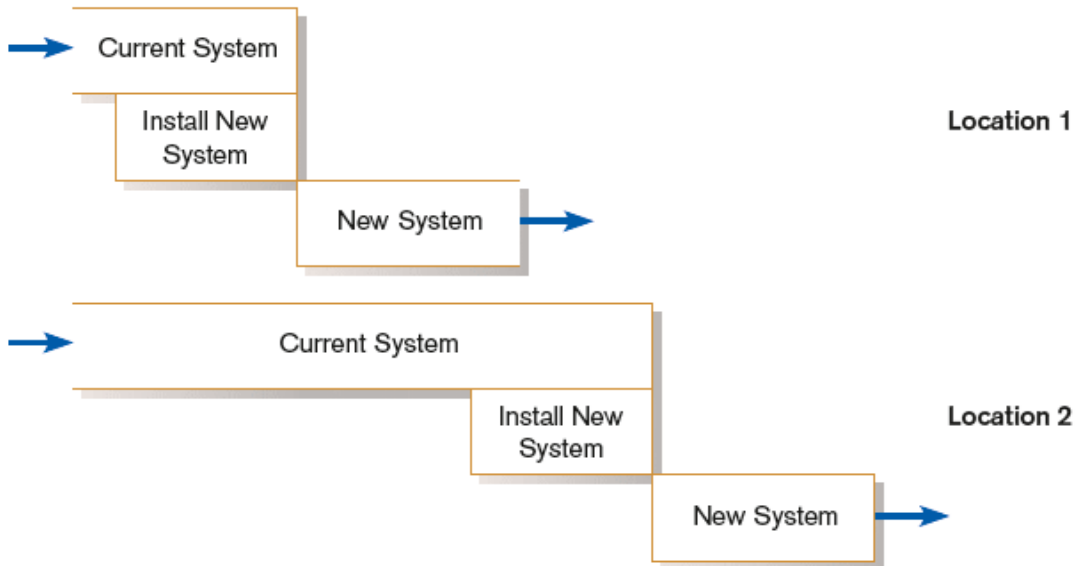
CONS

- Duplication of effort for the users
- Transition costs.
- Additional computer processing.

INSTALLATION STRATEGIES

■ SINGLE LOCATION INSTALLATION

- Trying out an information system at one site and using the experience to decide if and how the new system should be deployed throughout the organization
- Also known as location or pilot installation



PROS

- At the location, same with direct installation.
- Low risk for different location.



CONS

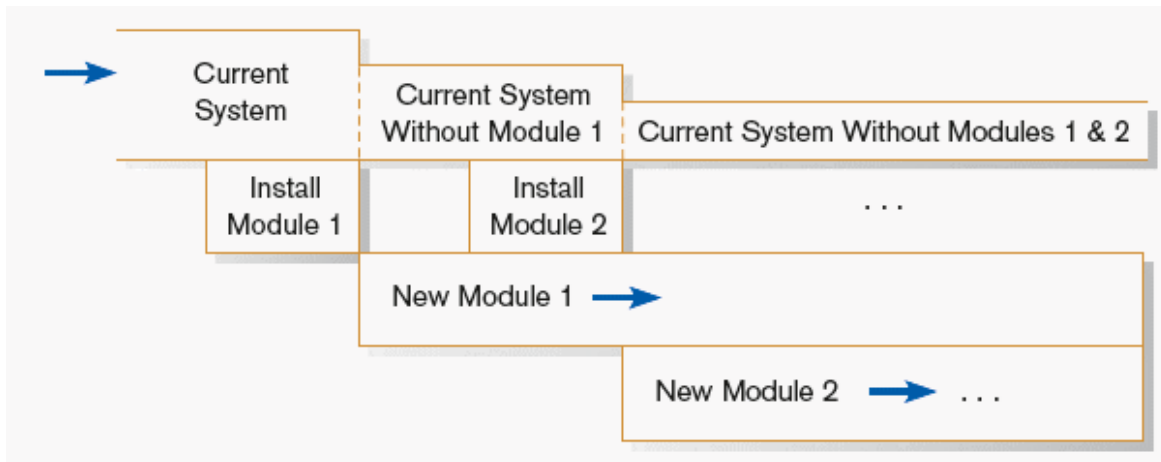
- At the location, same with direct installation.
- High risk at the same location.



INSTALLATION STRATEGIES

■ PHASED INSTALLATION

- changing from the old information system to the new one incrementally, starting with one or a few functional components and then gradually extending the installation to cover the whole new system



PROS

- User learning advantage.
- Low risk.
- Easier Installation - incremental



CONS

- Long period of change.
- Careful version control.



■ PLANNING INSTALLATION

- Considerations
 - Data conversion
 - Error correction
 - Loading from current system
 - Planned system shutdown
 - Business cycle of organization



■ MAJOR TOPICS

DOCUMENTING THE SYSTEM

- Generic guideline

■ DOCUMENTING THE SYSTEM

- **System documentation:** detailed information about a system's design specifications, its internal workings, and its functionality
- **User documentation:** written or other visual information about an application system, how it works, and how to use it
- **Internal documentation:** system documentation that is part of the program source code or is generated at compile time
- **External documentation:** system documentation that includes the outcome of structured diagramming techniques such as data flow and E-R diagrams



■ DOCUMENTING THE SYSTEM

TABLE 13-5 SDLC and Generic Documentation Corresponding to Each Phase

Generic Life-Cycle Phase	Generic Document
Requirements Specification	System Requirements Specification Resource Requirements Specification
Project Control Structuring	Management Plan Engineering Change Proposal
System Development	
Architectural design	Architecture Design Document
Prototype design	Prototype Design Document
Detailed design and implementation	Detailed Design Document
Test specification	Test Specifications
Test implementation	Test Reports
System Delivery	User's Guide Release Description System Administrator's Guide Reference Guide Acceptance Sign-Off

(Source: Adapted from Bell and Evans, 1989.)



■ GENERIC USER'S GUIDE OUTLINE

Preface

1. Introduction

1.1. Configurations

1.2 Function flow

2. User interface

2.1 Display screens

2.2 Command types

3. Getting started

3.1 Login

3.2 Logout

3.3 Save

3.4 Error recovery

3.n [Basic procedure name]

3.n.n [Task name]

...1

Appendix A—Error Messages
([Appendix])

Glossary

Terms

Acronyms

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...2

Source: Adapted from Bell
and Evans, 1989.)



DOCUMENTING THE SYSTEM



Figure 13-7
 Example of online user documentation
 (Source: Microsoft Corporation.)





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Thank You

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