Implementing a Centralized Development and Recovery Facility

Presented by:

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Agenda

- **Objective,**
- **Methodology,**
- **Project Plan Outline,**
- **Production Data Centers,**
- **Production Environment,**
- **Development Environment,**
- **Fully Implemented Environment,**
- **How DCAG can assist in achieving these goals.**

Objective

*** Provide a methodology to achieve an environment that:**

1. **Efficiently promotes and satisfies User Requests, while adhering to all standards and controls through automation wherever possible.**

2. **Identifies and classifies data, providing Vital Records Management facilities to safeguard and restore data in support of Business and Regulatory requirements.**

3. **Protects data through Access Controls and EDP Security mechanisms.**

4. **Generates and maintains all supportive information and Contingency Plans needed to insure that business services are continuously provided.**

5. **Requires less staff intervention and improves efficiency through automation wherever possible.**

Methodology

A. Implement Job Validation and Analysis system:

1. **Job / Scan or JCL Check for job valiadation.**
2. **Docu/Text type product for job analysis.**

B. Automate Standards validation and adherence checking.

C. Provide on-line access to supportive information.

D. Incorporate Job Level information within the PC based Contingency Planning system.

E. Develop a data processing environment capable of maintaining standards and required supportive information through automation.

F. Automate the sensing of problems and the activation of Contingency Plans.

G. Reduce costs and improve performance.

Project Plan

A. Install Job/Scan and Docu/Text:

1. Validation through Job/Scan.
2. Analysis through Docu/Text.
3. Systems wide cross-reference of resources via Docu/Text.
4. Disaster Recovery information automatically maintained.

B. Implement Job/Scan Exit Programs:

1. Standards adherence validation.
2. Interface to personnel functions.
3. Interface to PC based Contingency Planning product.

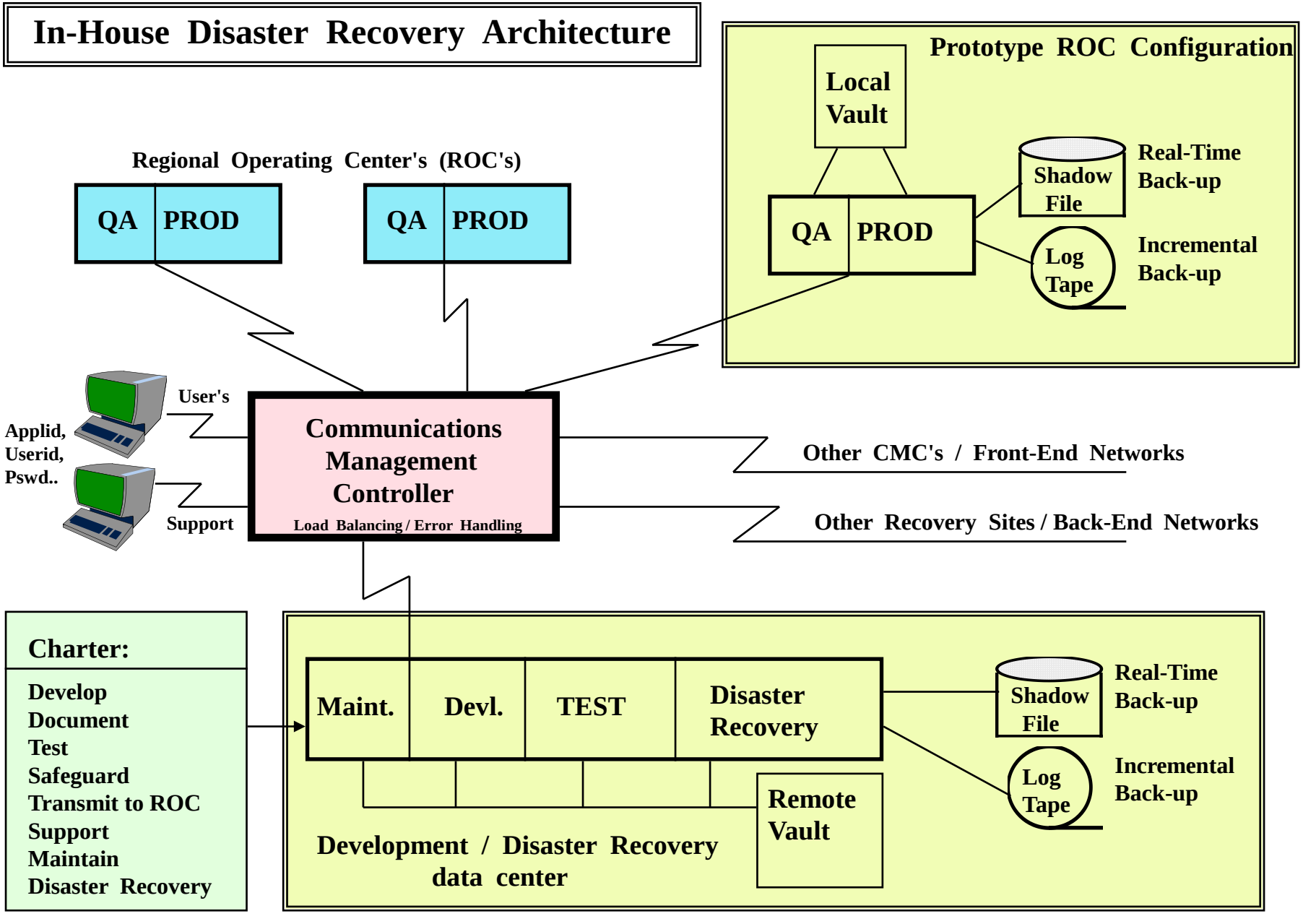
C. Implement on-line Job Documentation.

D. Provide professional education services.

E. Convert existing environment(s).

F. Assure adherence to administrative and maintenance procedures.

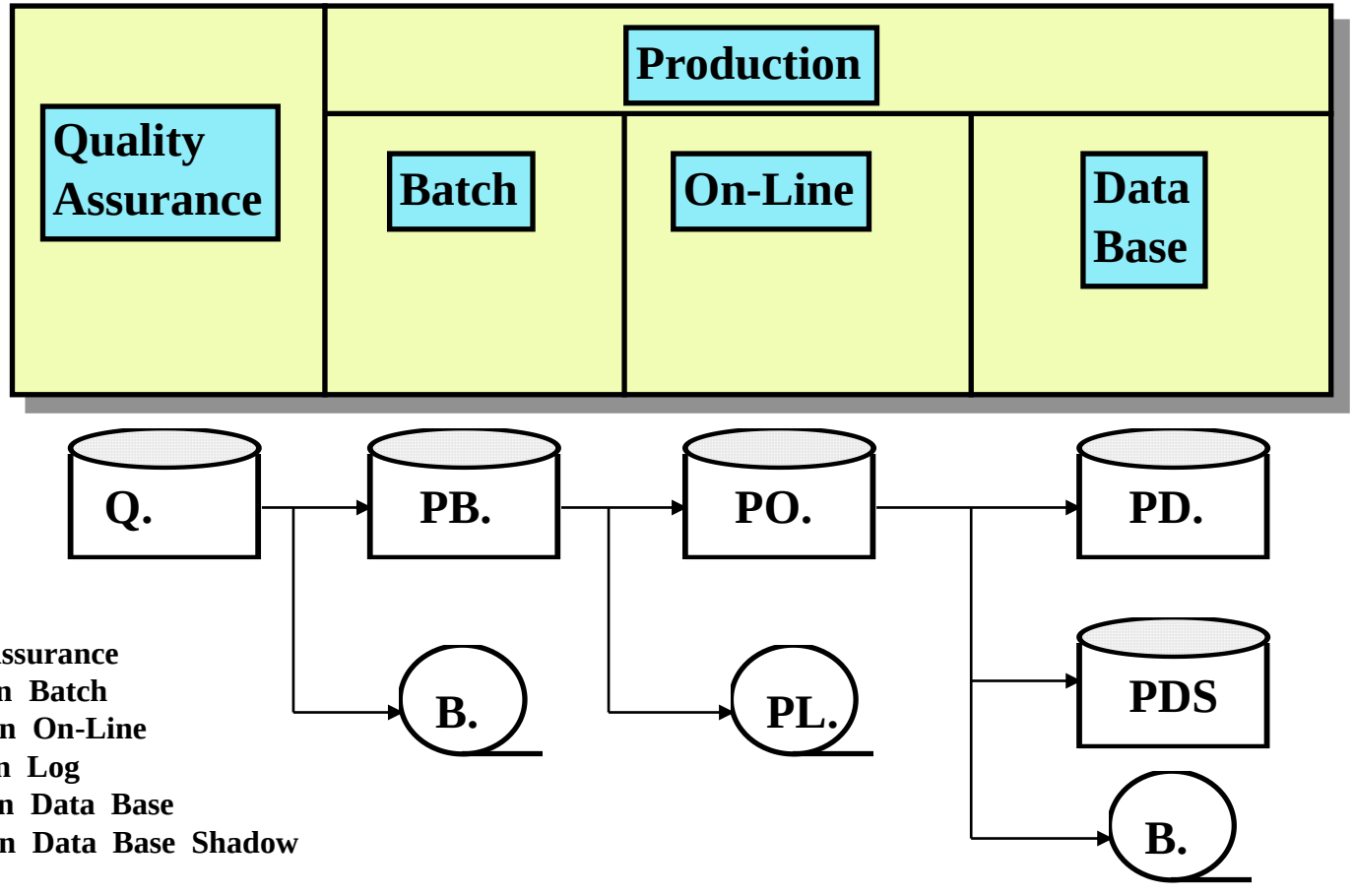
In-House Disaster Recovery Architecture



Benefits derived from suggested architecture

- **Configuration is duplicated for each Regional Operating Center (ROC).**
- **Global Standards are easily achieved, because of centralized Development data centers.**
- **Local and Remote Vaults protect Vital Records.**
- **Development data center(s) Local Vault serves as Corporate Remote Vault(s).**
- **Library and Vital Record Management can be easily accomplished.**
- **Electronic Vaulting for most critical data can be accomplished via existing communications facilities with very little additional costs.**
- **Logging of critical information can be accomplished via existing communications facilities with little additional costs.**
- **Centralized Support and Maintenance can reduce costs and improve the level of service through enhanced technical expertise.**
- **Redundancy in design provides secondary recovery facilities.**
- **Elimination of Off-Site Vault and Recovery Site vendor contracts.**
- **Development / Disaster Recovery data center constructed from equipment and resources associated with ROC data centers by moving Maintenance / Development / Test / and Disaster Recovery resources from ROC to Development / Disaster Recovery data center(s).**

Production Environment - Regional Operating Centers (ROC) Sites



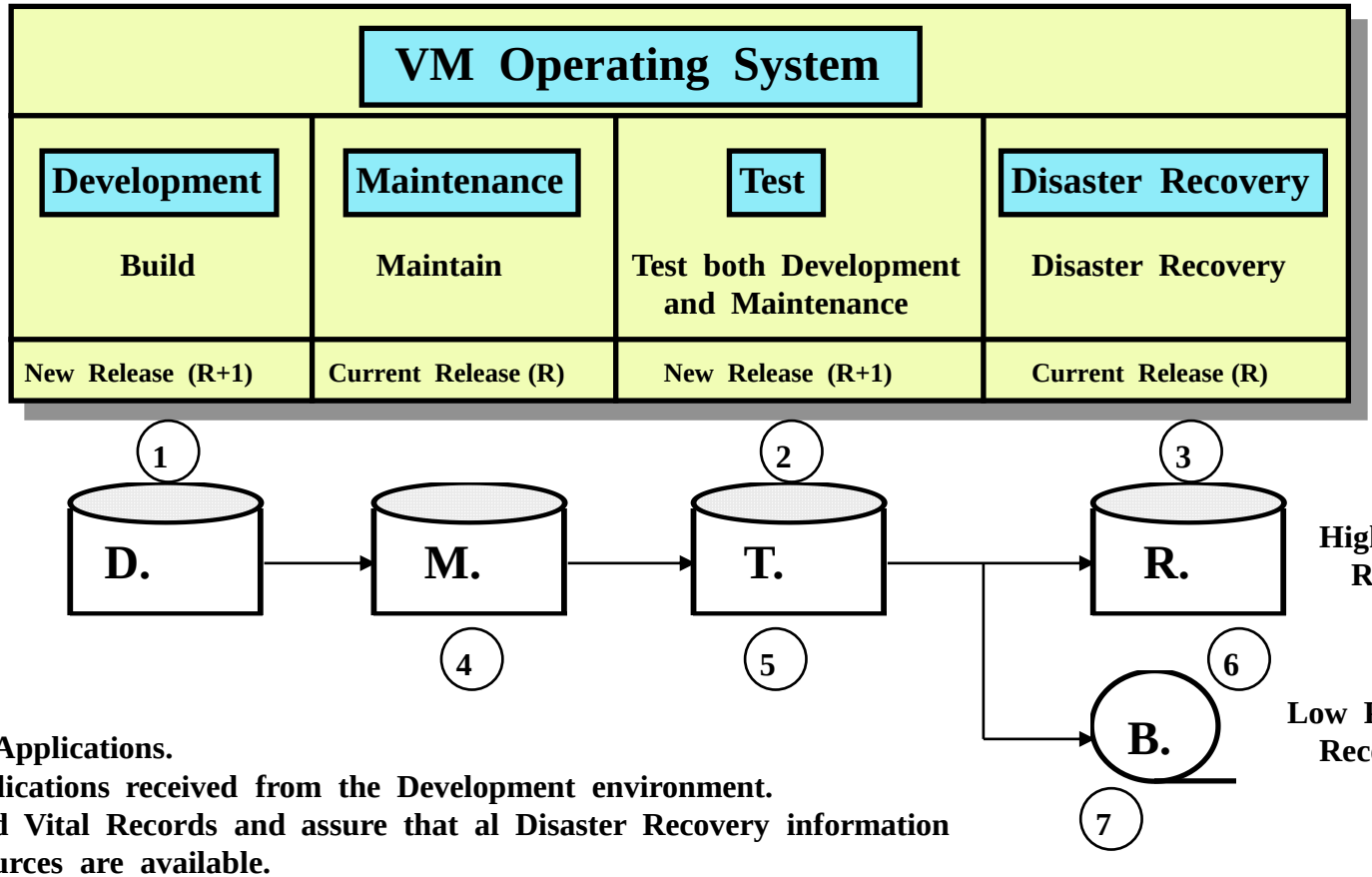
Legend:

B = Backup
Q = Quality Assurance
PB = Production Batch
PO = Production On-Line
PL = Production Log
PD = Production Data Base
PDS = Production Data Base Shadow

QA Libraries are populated from Development environment Jobs that have successfully passed Standards Adherence Validation.

Problem Management / Circumvention and Business Recovery activated via automated programs and monitoring controls.

Development / Maintenance / Disaster Recovery Environment utilizing Component and Release Management



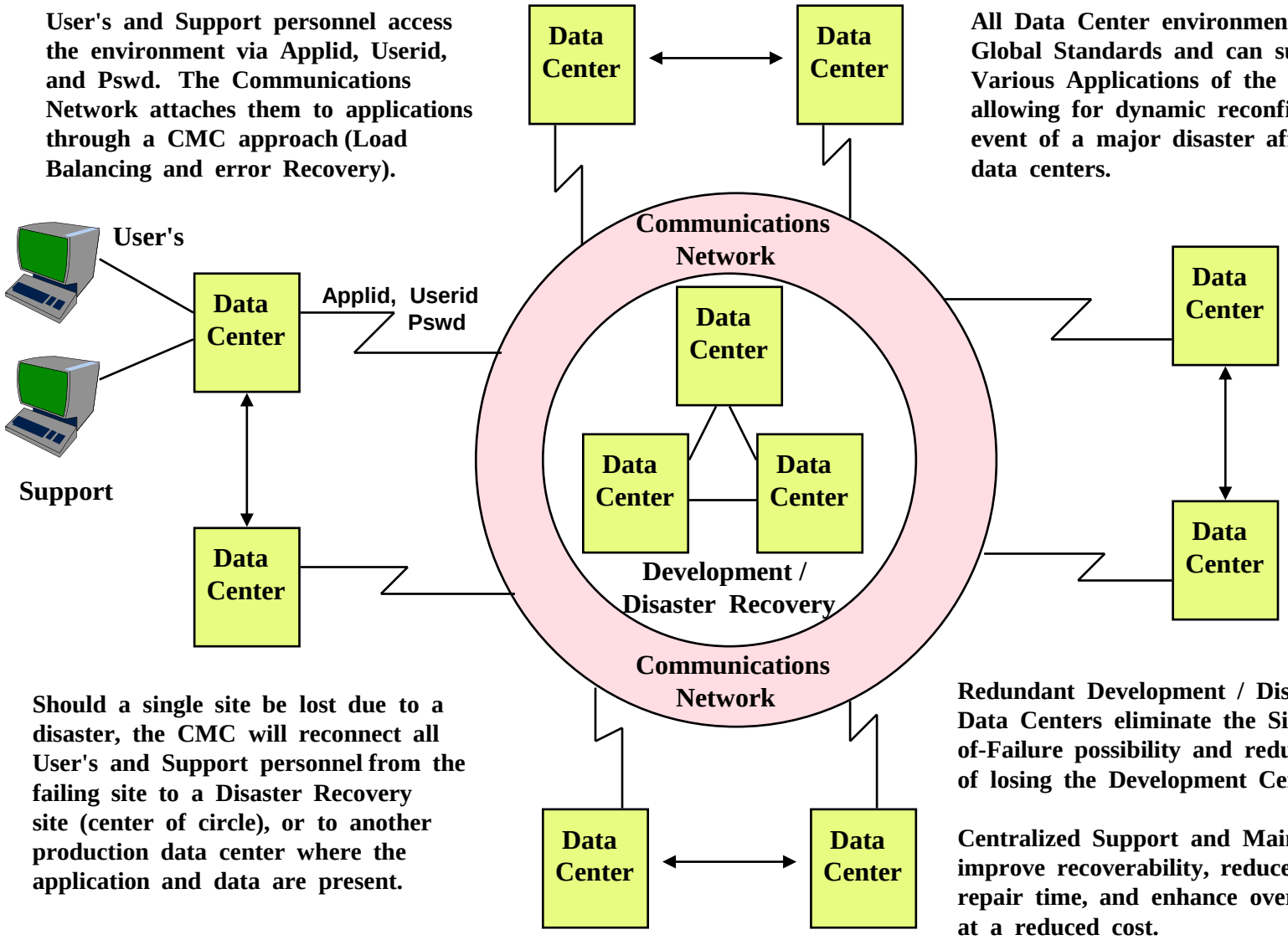
Legend:

1. **Develop Applications.**
2. **Test Applications received from the Development environment.**
3. **Safeguard Vital Records and assure that al Disaster Recovery information and resources are available.**
4. **Maintain Applications.**
5. **Test Applications received from the Maintenance environment.**
6. **Maintain Vital Records and Disaster Recovery information and resources.**
7. **Insure vaulting of Vital Records and critical information needed to support recovery operations.**

Fully Implemented Environment

User's and Support personnel access the environment via Applid, Userid, and Pswd. The Communications Network attaches them to applications through a CMC approach (Load Balancing and error Recovery).

All Data Center environments comply to Global Standards and can support the Various Applications of the organization, thereby allowing for dynamic reconfiguration in the event of a major disaster affecting multiple data centers.



Should a single site be lost due to a disaster, the CMC will reconnect all User's and Support personnel from the failing site to a Disaster Recovery site (center of circle), or to another production data center where the application and data are present.

Redundant Development / Disaster Recovery Data Centers eliminate the Single-Point-of-Failure possibility and reduces the impact of losing the Development Center.

Centralized Support and Maintenance will improve recoverability, reduce problem repair time, and enhance overall operations at a reduced cost.

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