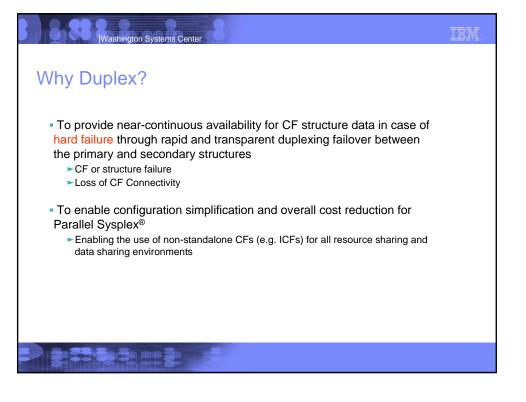
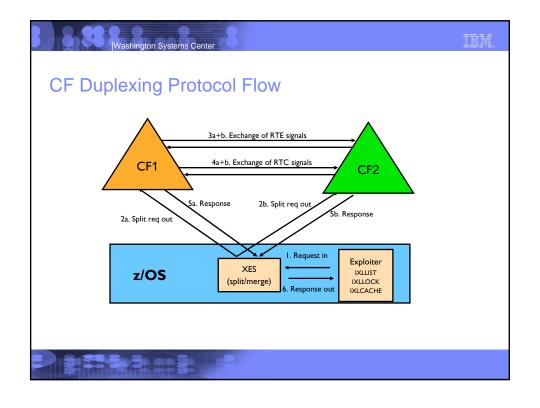
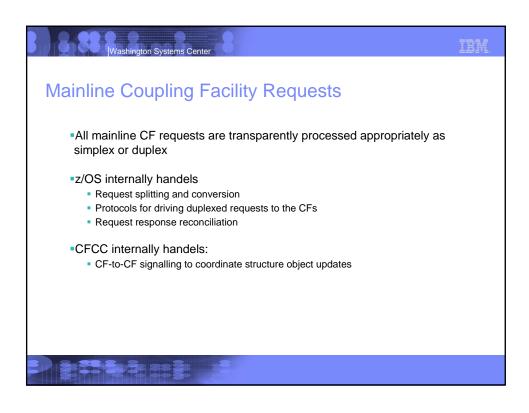


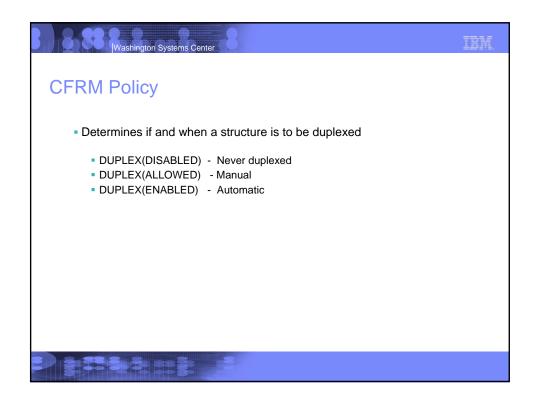
## What is SM CF Duplexing? System allocates a secondary instance of a Coupling Facility structure Replicates the structure contents in the secondary structure to establish duplexing System transparently replicates Coupling Facility operations Update structure contents in both structure instances in a synchronized manner to maintain data consistency between the primary and secondary structure contents In the event of a failure affecting one of the instances System failovers to simplex mode using only the unaffected structure instance with no loss of data

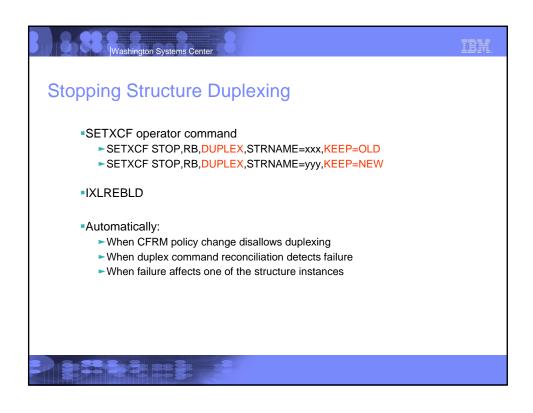


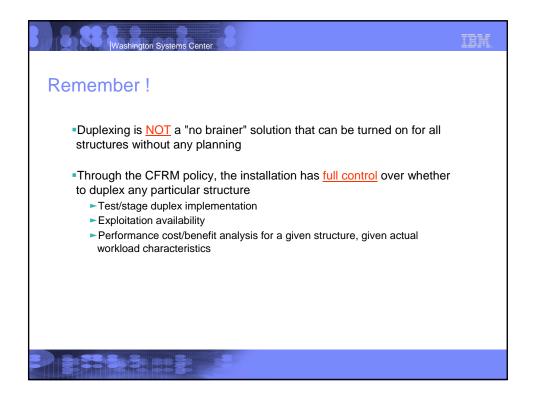
# Duplexing Candidates Structures whose connectors: Do not support rebuild at all Support rebuild but Either cannot rebuild the structure contents when the structure and one or more connectors are simultaneously lost as the result of lack of failure-isolation Or reconstruction of the data in failure scenarios is time-consuming or error-prone Do not support User-Managed Duplexing

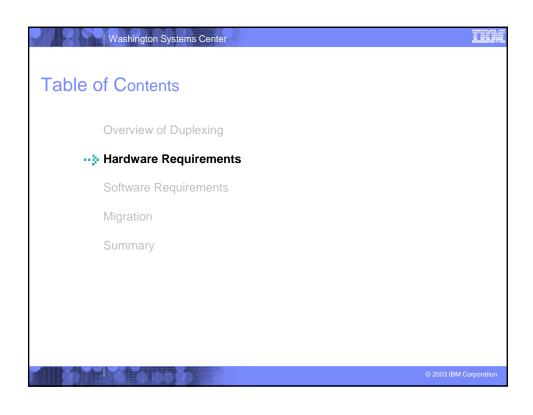


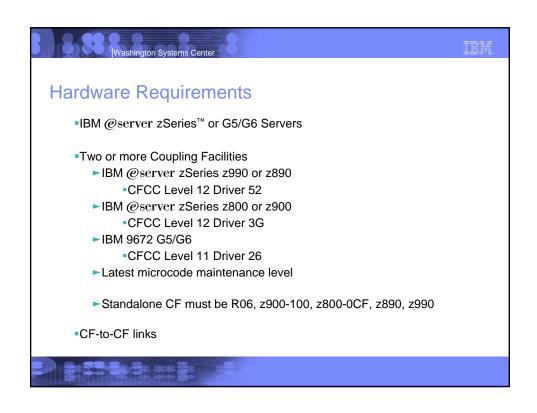


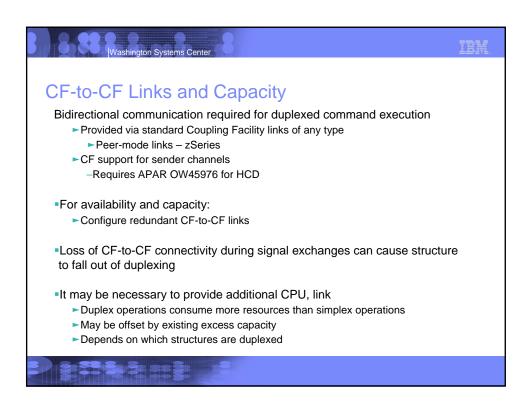


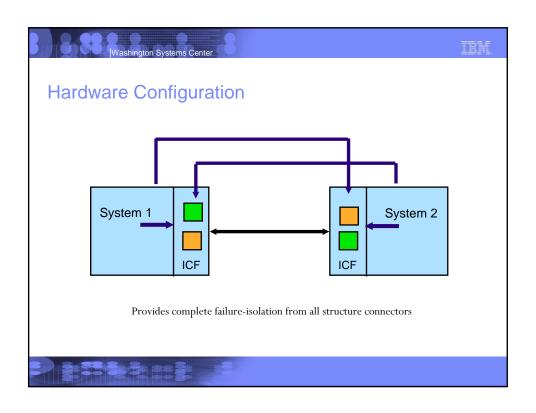


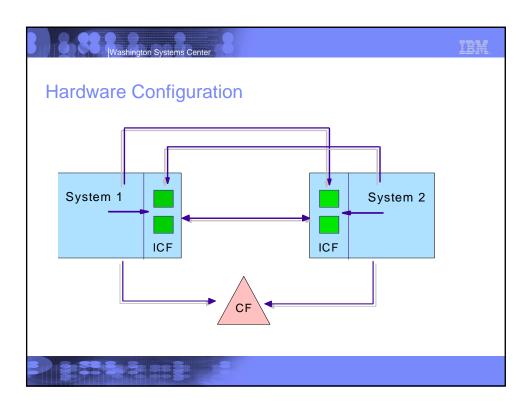




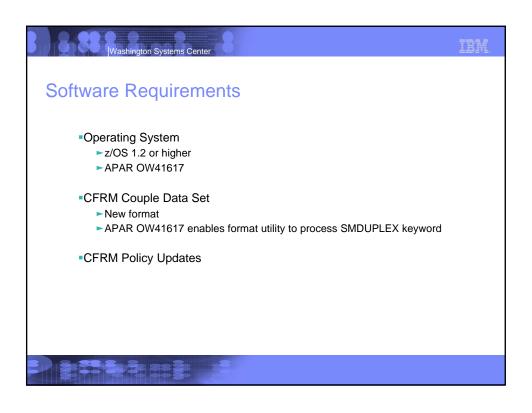


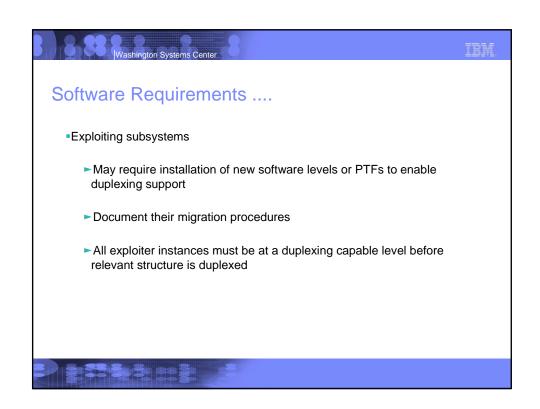


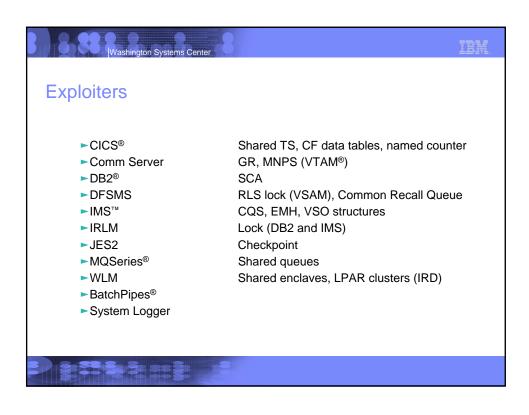




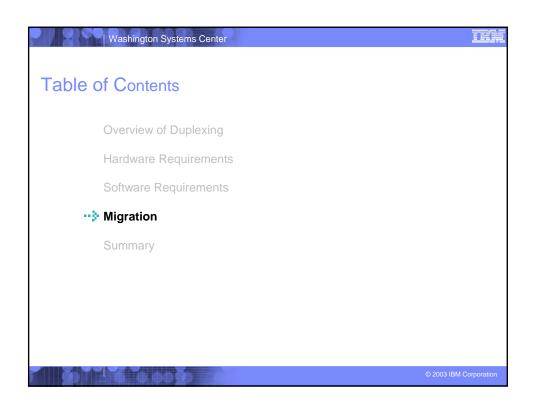


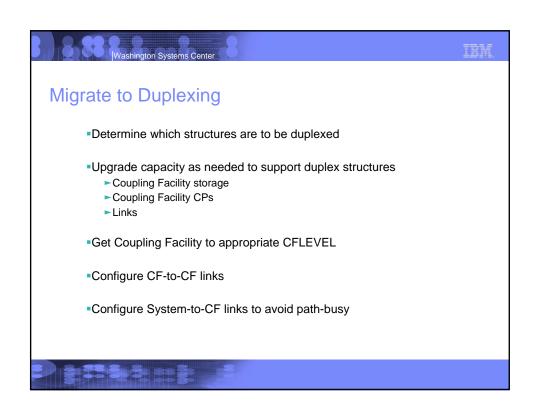




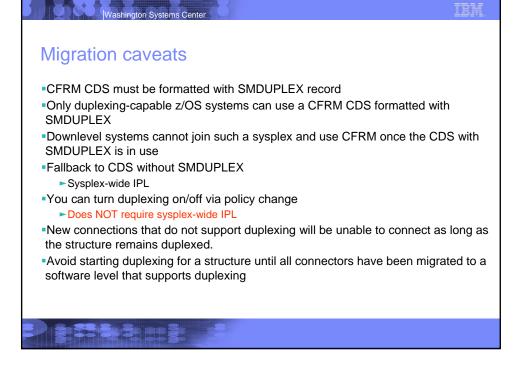








# Migrate to CF Duplexing .... \*Migrate systems to level of z/OS that supports duplexing \*Check the CFDUPLEXING PSP Bucket \*Migrate exploiter software to level supporting system-managed CF Duplexing \*Migrate CFRM CDS to level supporting SMDUPLEX \*Define and activate CFRM policy with DUPLEX parameter for desired structures \*Document operational procedures for failure scenarios \*Monitor and Tune



## Operational caveats

- System Managed duplexing is built upon system managed rebuild processing and user managed duplexing
- •While duplexed, a structure is considered to be indefinitely in a rebuild phase
  - The Duplex Established phase of a duplexing rebuild process
- Therefore, display commands and messages issued for duplexed structures will use rebuild terminology
  - Rebuild
  - Duplexing Rebuild
  - Old Structure
  - New Structure

## Washington Systems Center

### IBM

IBM

### **Operational caveats**

- Policy change remains pending until physical instance(s) of structure allocated under old CFRM policy are deallocated
- Policy changed while structure duplexed, need to stop duplexing, start rebuild, then start duplexing to resolve pending changes
- •Policy changed for simplex structure that is then duplexed, the new instance is allocated under the pending policy.
  - Need to stop duplexing (keep the new one), then start duplexing to resolve pending changes
- System managed CF structure duplexing is not started for a structure that has a pending policy change

