

Backup service tiers

<i>Tiers</i>	<i>Platinum (1)</i>	<i>Gold (2)</i>	<i>Silver (3)</i>	<i>Bronze (4)</i>	<i>Nickel (5)</i>
Backup methodology options	<ul style="list-style-type: none"> ▪ Backups are done hot (live quiesce) ▪ Use disk snapshot or full clone as a source for backup server ▪ Use synthetic backups to amalgamate incrementals ▪ Use offline split mirror as the source for database restore in conjunction with redo logs ▪ Maximum number of archive copies based on the need for granular file restore at multiple points in time 	<ul style="list-style-type: none"> ▪ Archived copies of backed up data remain on ATA ▪ Inline copies of backup are sent to tape and shipped to offsite service (one copy only) ▪ Backups are done hot (live quiesce) ▪ Differentials for Exchange ▪ Use disk snapshot or full clone as a source for backup server ▪ Backup data is sent to an ATA disk array ▪ Use synthetic backups to amalgamate incrementals 	<ul style="list-style-type: none"> ▪ Backup done cold ▪ Backup data is sent to tape ▪ Inline dupe copies of backup are sent to vaulting facility ▪ Block-type backups for servers with large number of small files 	<ul style="list-style-type: none"> ▪ Backup done cold ▪ Backup data is sent to tape ▪ Inline dupe copies of backup are sent to vaulting facility 	<ul style="list-style-type: none"> ▪ No backups or backup of data sent to spare space on same or another local server
Archive requirements and reporting	<ul style="list-style-type: none"> ▪ Additional number of retained backup copies may be needed based on the need for granular file restore at multiple points in time (archive copies) ▪ TBD (e.g., Ixos Software, Princeton Softech Inc., etc.) ▪ Possibly expand use of Migration Level 1 ▪ Send Migration Level 2 to disk 	<ul style="list-style-type: none"> ▪ Complete database archive deployment (e.g., Ixos Software, Princeton Softech Inc., etc.) 	<ul style="list-style-type: none"> ▪ TBD (e.g., Ixos Software, Princeton Softech Inc., etc.) 	<ul style="list-style-type: none"> ▪ N/A 	<ul style="list-style-type: none"> ▪ N/A
Backup storage media	<ul style="list-style-type: none"> ▪ Disk replaces tape completely ▪ Backup data is sent to an ATA disk array ▪ ATA backup data is mirrored to hot site ▪ Use private network for logs ▪ Use public network with IPsec for migrating backup info 	<ul style="list-style-type: none"> ▪ Disk replaces tape as the first restore source and an archive source ▪ Tape remains as an offsite option only in case of disaster ▪ Use public network with IPsec for migration of backup info 	<ul style="list-style-type: none"> ▪ Tape only 	<ul style="list-style-type: none"> ▪ Tape only 	<ul style="list-style-type: none"> ▪ Image of OS, data files or application is made to CD and sent offsite as well
Restore requirements	<ul style="list-style-type: none"> ▪ Full application restore practiced quarterly 	<ul style="list-style-type: none"> ▪ Full application restore practiced annually 	<ul style="list-style-type: none"> ▪ Full application restore practiced annually 	<ul style="list-style-type: none"> ▪ Full application restore practiced on demand 	<ul style="list-style-type: none"> ▪ Full application restore practiced on demand
Assumptions	<ul style="list-style-type: none"> ▪ Very high data state change rate 	<ul style="list-style-type: none"> ▪ High data state change rate 	<ul style="list-style-type: none"> ▪ Moderate data state change rate 	<ul style="list-style-type: none"> ▪ Minimal data state change rate 	<ul style="list-style-type: none"> ▪ No appreciable data state change rate
Application restore requirements	<ul style="list-style-type: none"> ▪ Full application restore practiced quarterly 	<ul style="list-style-type: none"> ▪ Full application restore practiced annually 	<ul style="list-style-type: none"> ▪ Full application restore practiced annually 	<ul style="list-style-type: none"> ▪ Full application restore practiced on demand 	<ul style="list-style-type: none"> ▪ None
File/record restore requirements	<ul style="list-style-type: none"> ▪ All data in perpetuity 	<ul style="list-style-type: none"> ▪ Up to three years 	<ul style="list-style-type: none"> ▪ One year 	<ul style="list-style-type: none"> ▪ None 	<ul style="list-style-type: none"> ▪ None