

IBM Integration Bus

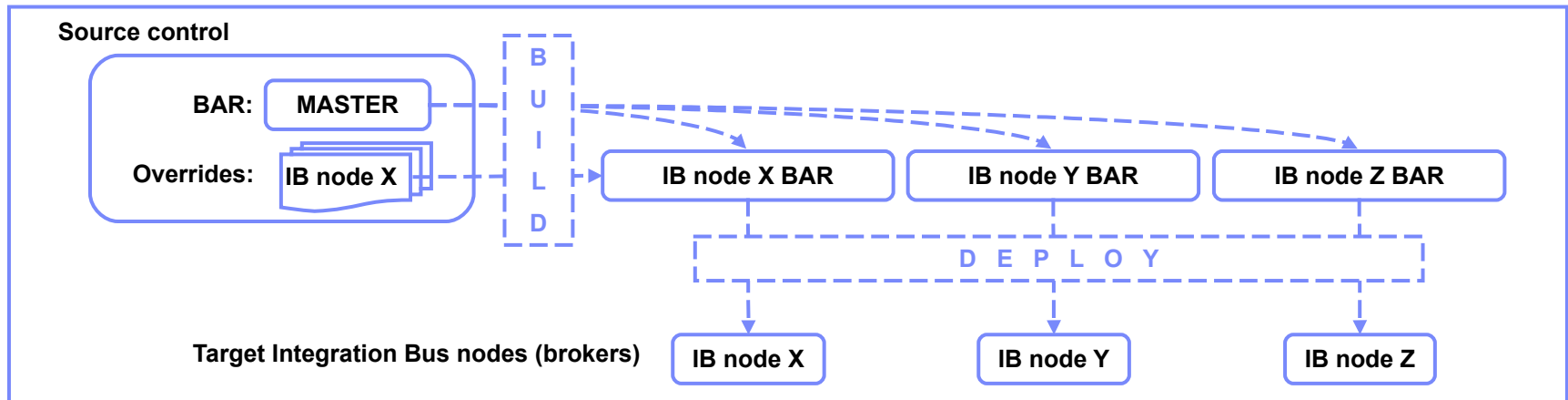
DTCC Deployment Enhancement



Analysis

▪ DTCC deployment Process AS-IS

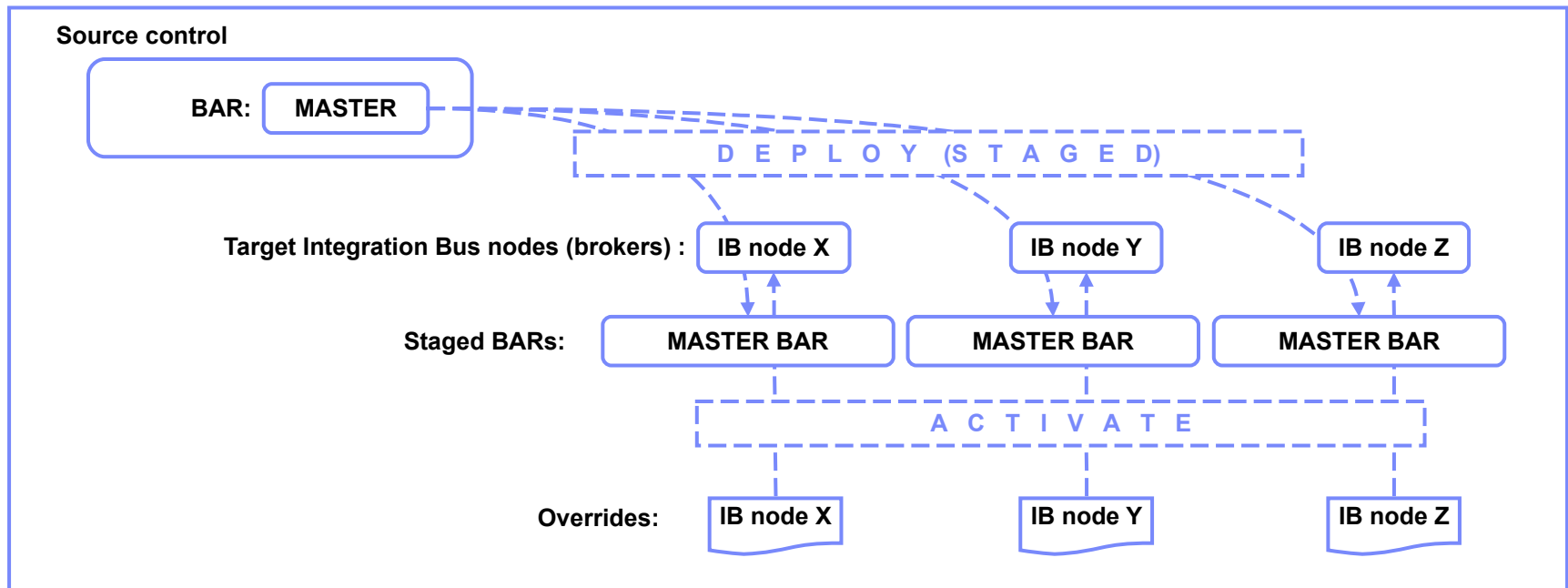
- Master BAR file describes integration logic
- Environmental overrides currently from source control applied at build time, and subsequently deployed
- Concerns:
 - Overrides should not be responsibility of development staff; should be operator managed
 - Need ability to activate deployment from operational environment independent of deployment
 - Separation of concerns: roles (who?), behaviour (what?), timing (when?)



Enhanced Activation Feature

▪ DTCC deployment Process TO-BE

- Master BAR file still describes integration logic, deployed to target IB node (broker) as-is
- Environmental overrides created and stored by operators at target IB node (broker)
 - (Fully compatible with existing overrides file; provides seamless experience)
- Master BAR file has overrides applied on TARGET IB node, post deployment
 - Order of deployment and activation not important, but both must be present
- Backup of overrides file is operational responsibility
 - Stored in target IB (broker) file system and saved using `mqsibbackupbroker`
- Addresses:
 - Reduced developer burden, and separation of concerns for roles: operator decides what & when



New & Modified Commands to Support Feature

▪ New **mqsideploy** command option

- Syntax: **mqsideploy** <bar name> **-stage**
- The **stage** option deploys BAR file as single entity to target IB node (broker)
- BAR remains packed and inactive in on target IB node (broker)
 - Stored in new **...registry\BARs** section of IB node (broker)
- New **mqsideletebar** command to remove unwanted staged BARs
 - Web, CMP options updated as appropriate

▪ New **mqsicreateoverridesfile** command

- Syntax: **mqsicreateoverridesfile** **-input** <file>, **-output** <overrides name>
- Places existing format overrides file, inactive on target IB node (broker)
- Stored in new **...registry\Overrides** section of IB node (broker)
- Introduce corresponding **mqsideleteoverrides**, **mqsilistoverrides** commands
- Include WebUI, CMP and REST variants of all overrides new commands

▪ New **mqsiactivatebar** <bar name> <overrides> command

- Unpacks BAR from **...registry\BARs**, applies overrides from **...registry\Overrides**
 - Similar to exiting deploy process but inputs are from local broker

▪ Related Features

- Provide new **mqsiundeploy** command to remove most recent BAR file from deployed broker
- Requires existing **mqsideploy** command to save BARs as per **-stage** option
- Requires changes to execution group start-up to only hydrate most recent saved BAR
 - Undeploy would simply delete this BAR leaving next most recent for hydration