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Instrument Manager v8.15.00

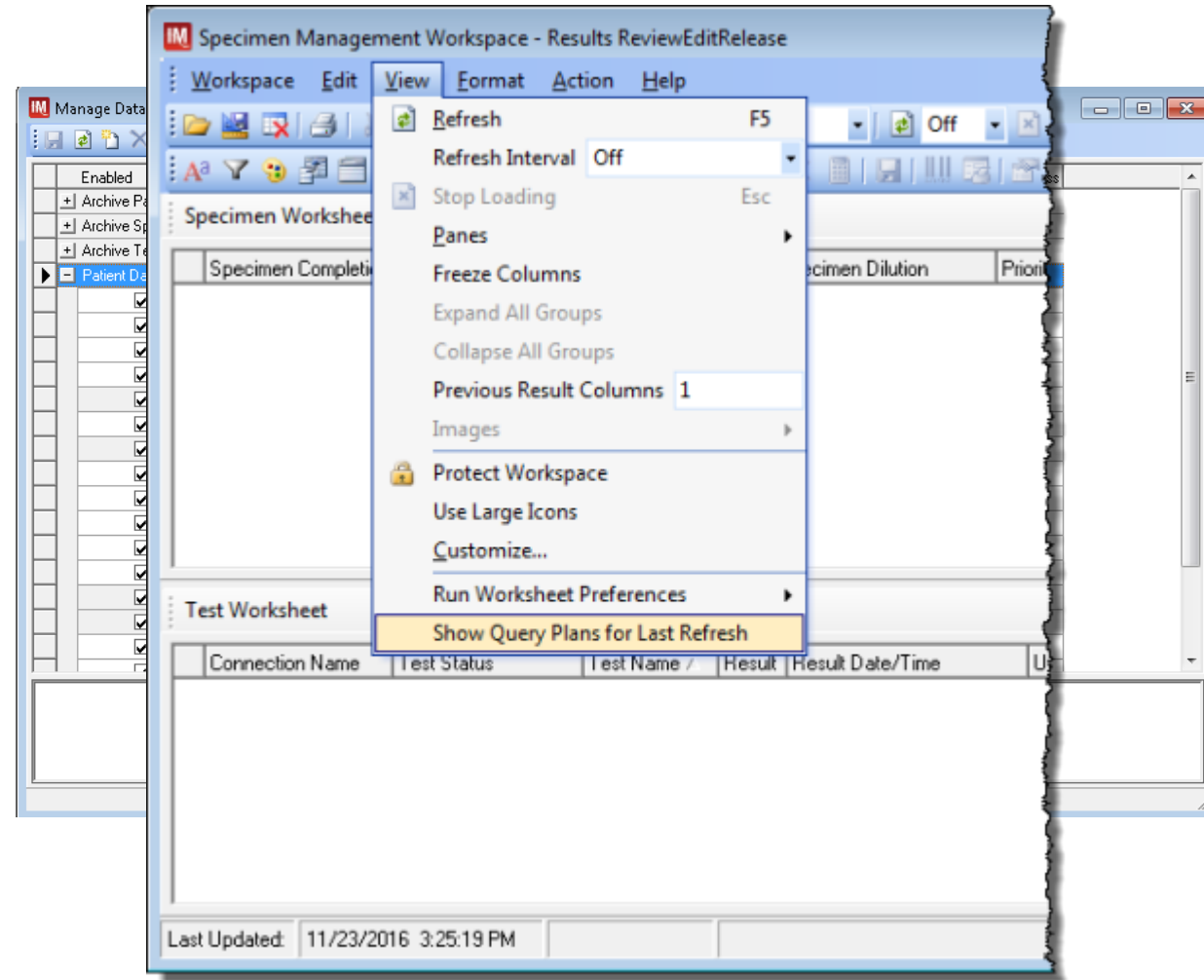
Overview of the New Features and Functionality

Instrument Manager 8.15 Features

- Specimen Management Updates
 - SM Index Updates (CPU/Disk improvements)
 - SMW result entry – force select from dropdown for coded entries
 - Simplified Traceability - SEL/SMW
- Shared Orders DB
- Mirroring
 - Automatic failover – Cache 2016.2 update
 - Failover/Async members
- LabIntel
 - Filter Widget
 - Listing groups (use across pivots)
- APIs
 - Framework, Structure, Security (SSL), IIS (Webserver)
- Additional changes
 - Windows 10 and Server 2016 support
 - Security Updates
 - UDI Support

SM Index Updates

- Allows configuration of indices used in the SM (and Archive) database
 - Access from the SM Configuration / Manage Database Indices menu
 - Users can Delete/Add/Modify indices
 - New Indices are created when workflow needs a specific data element to be used in SM Workspace
 - Delete Indices if they are not in use or needed
 - Additionally, Query Plans can be viewed to see performance of SMW.
 - Demo



Coded Entry Updates

- Security Setting to Prevent Free Text in Coded Entry Fields
- SM Workspace updated for easier Coded Entry Input
- Demo

Menu Item	Enabled
System	<input checked="" type="checkbox"/>
Configuration	<input type="checkbox"/>
Diagnostics	<input checked="" type="checkbox"/>
Security	<input checked="" type="checkbox"/>
Specimen Management	<input checked="" type="checkbox"/>
SM Workspace	<input checked="" type="checkbox"/>
Workspace Edit	<input type="checkbox"/>
SM Actions	<input checked="" type="checkbox"/>
Free Text in Coded Entry fields	<input type="checkbox"/>
Patient and Order Management	<input checked="" type="checkbox"/>
Rapid Order Entry	<input type="checkbox"/>
Manual Results Entry	<input type="checkbox"/>
SSR	<input type="checkbox"/>

Test Name	Result /	Test Comment(s)	Units	Error Name(s)
ALB	#LAMST			
ALP				
ALT	#LA11 - Test Not Performed. Specimen deterioration or loss has occurred such that testing is n...			
AMY	#LAMST - Test Not Performed. The requested test was omitted during the order entry process ...			
AST				
BUN	#QNS - Quantity was not sufficient for analysis			
CA	#TNP - Test not performed			
CHOL	#TNPOLD - Testing not performed due to the age of this specimen			
CK				

Simplified Tra

Traceability for Specimen ID: 112

Start Date: 9/16/2016 Start Time: 11:40 AM
 End Date: 9/16/2016 End Time: 1:35 PM

Test Information

Date/Time /	Category	Description
9/16/2016 11:40:00 AM	←	Request Received from: GMPAD
9/16/2016 11:40:00 AM	👤	Rules Fired
9/16/2016 11:42:45 AM	←	Request Received from: GMPAD
9/16/2016 11:45:10 AM	👤	Rules Fired
9/16/2016 11:45:11 AM	←	Results Received from: GMPAD
9/16/2016 11:45:11 AM	👤	Rules Fired
9/16/2016 11:45:11 AM	✅	Specimen Added to Storage
9/16/2016 11:48:17 AM	?	Specimen Queried from: 5_6666_G80003
9/16/2016 12:00:27 PM	✅	Specimen Added to Storage
9/16/2016 12:08:09 PM	←	Results Received from: 5_6666_G80003
9/16/2016 12:08:09 PM	👤	Rules Fired
9/16/2016 12:11:26 PM	?	Specimen Queried from: 5_6666_G80003
9/16/2016 12:55:11 PM	←	Request Received from: GMPAD
9/16/2016 12:55:11 PM	👤	Rules Fired
9/16/2016 12:55:11 PM	←	Cancelled by: G cobas p701 (1043701)
9/16/2016 12:58:30 PM	👤	Rules Fired
9/16/2016 1:05:35 PM	?	Specimen Queried from: 5_6666_G80003
9/16/2016 1:29:06 PM	←	Results Received from: 5_6666_G80003
9/16/2016 1:29:06 PM	👤	Rules Fired

Audit Detail

Imported Event
Date/Time: 9/16/2016 12:55:11 PM
Connection/Configuration: GMPAD/GMPAD
Location: Before Data Updated with Specimen Management Info
Event: Audit
Record changed by User: Rules
Time Taken to Evaluate Rules: < 1 ms
Description:

Record was a request from GMPAD
 Original Data:
 Patient Data:
 Patient ID = '66666'
 Patient Name = 'TEST_PATIENT.'
 Sex = 'M'
 Date of Birth = '1/1/1995'
 Location - Facility = 'DUM'
 Location Nurse Station = 'DUM'

Specimen Data:
 Specimen ID = 'G2850235282'
 Fluid = '1'
 Priority = 'R'
 Collection Date/Time = '9/16/2016 11:39:00 AM'
 Ordering Physician = '100001,TEST_PROVIDER'
 Specimen Action = 'A'
 Specimen Comments = 'LGT_GRN DUM,F31253,'

Test Data:
 Test Code = 'CEA'

Rules used:
DESC Set Request ID [DO NOT MOVE, EDIT OR DELETE THIS RULE]
IF (Request ID = "")
THEN Set Request ID = Specimen ID
 Changed data:
 Added Request ID of 'G2850235282'

OK

Time: 11:40:00 AM Search By Date
 Time: 1:35:58 PM

Specimen Information

Description

Request Received from: GMPAD
 Specimen Queried from: 5_6666_G80003
 Result '3.82 ng/mL' Received from: 5_6666_G80003
 Validated by: Rules
 Result Changed by Rules from '3.82' to '3.8'

Request Received from: GMPAD
 Request Received from: G cobas 8100 in
 Specimen Queried from: 5_6666_G80003
 Result '2.17 ng/mL' Received from: 5_6666_G80003
 Validated by: Rules

Result 'No' Received from: G cobas p701 (1043701)

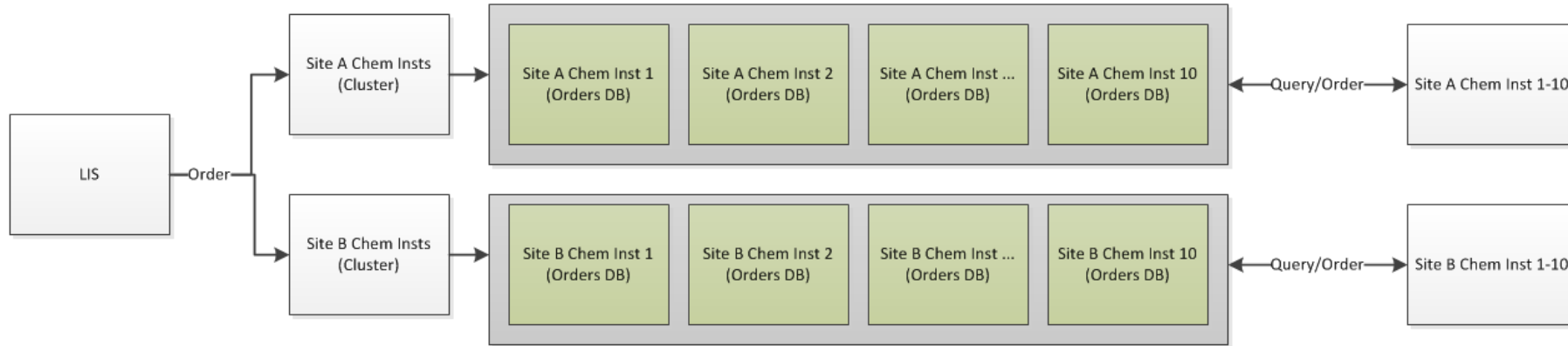
Close

Shared Orders Database

- Available for Connections using the same Configuration
- Allows any instrument using that Shared Orders DB to query for the specimen
- Helps reduce load on disk I/O and disk space

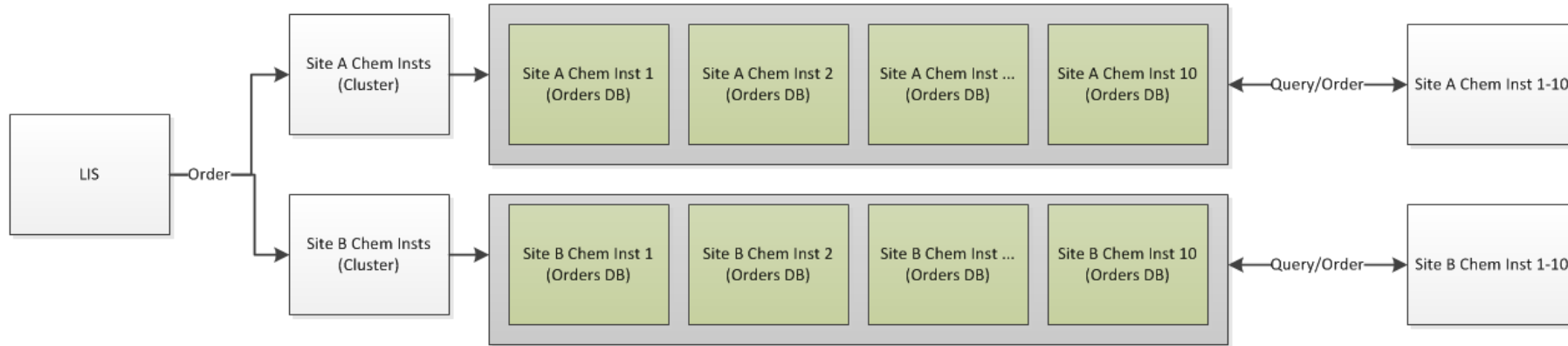
Shared Orders DB Workflow

CURRENT WORKFLOW

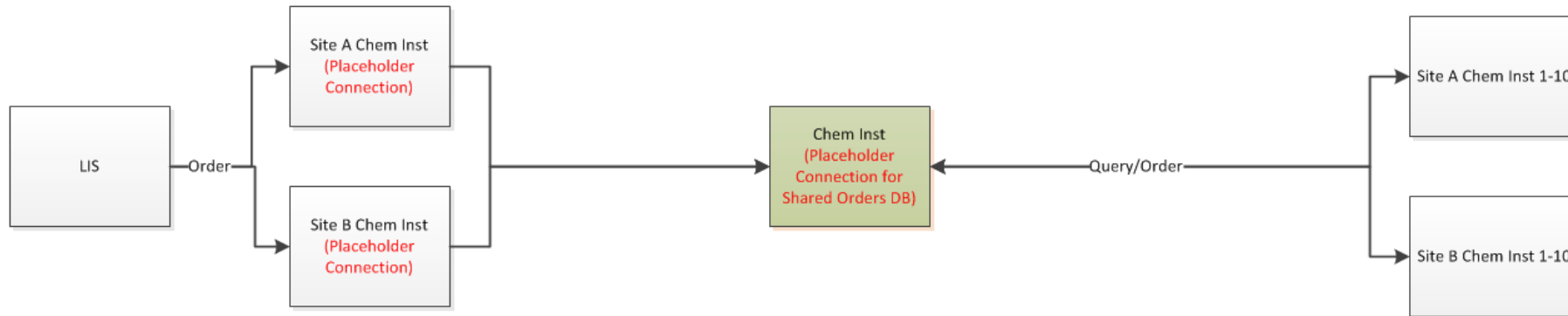


Shared Orders DB Workflow

CURRENT WORKFLOW



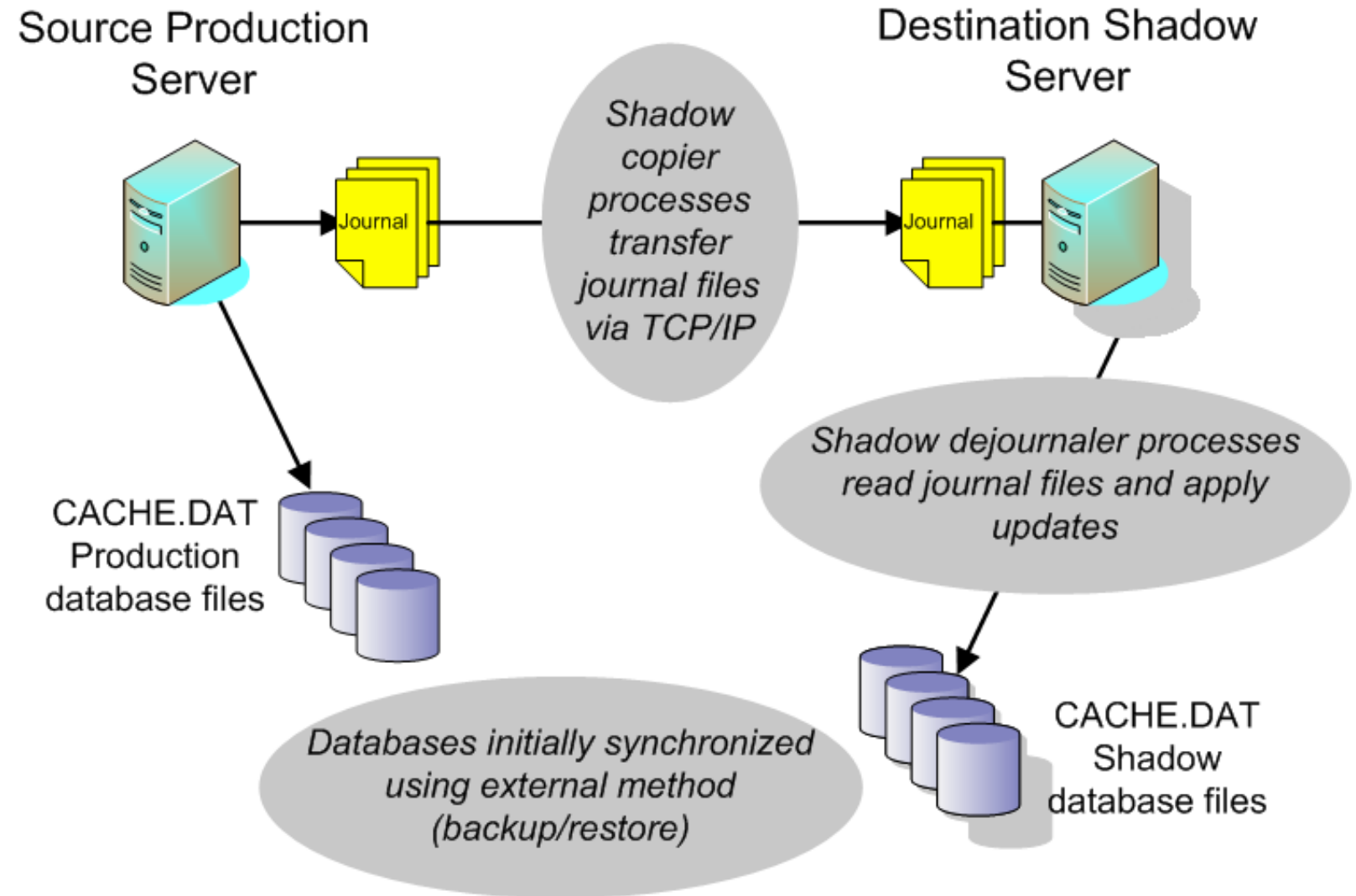
WORKFLOW W/SHARED DB



Differences between Shadowing and Mirroring

- Shadowing

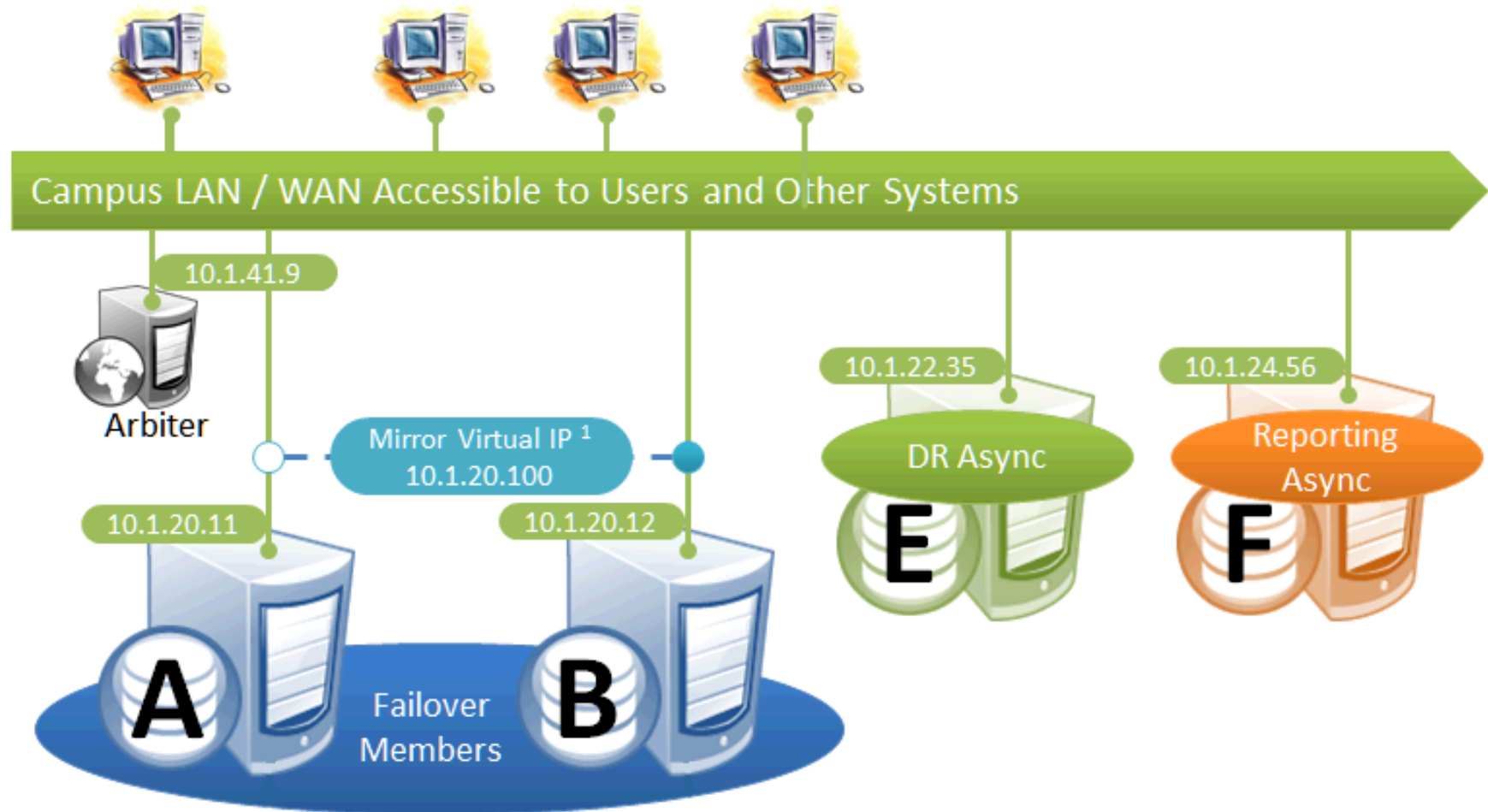
- Failover is a manual process
- Acting Primary system needs primary's IP Address and Hostname
- Only a Disaster Recovery Option



Differences between Shadowing and Mirroring

- Mirroring

- Allows both High Availability and Disaster Recovery options
- No IP Addresses or Hostnames have to be changed during failover
- Limited IT involvement for failover action
- High Availability allows automatic failover
- Disaster Recovery is manual in a single click



Differences between Shadowing and Mirroring

- Definitions

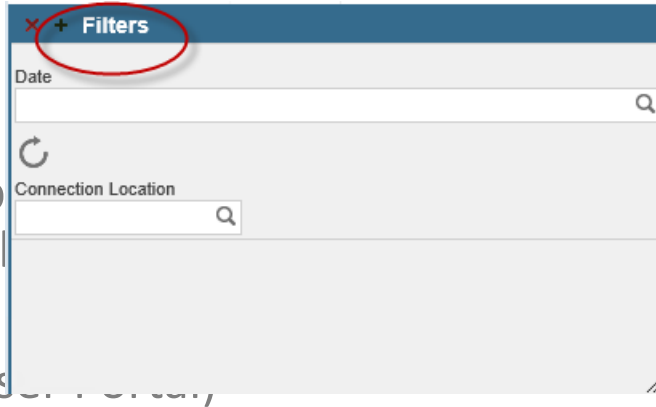
- All systems are **Mirror Members**
- A Mirror Member can have different roles
 - Failover (High Availability)
 - Read-Write Reporting (Report Server)
 - Disaster Recovery (Hot Backup/Shadow)
- A Failover member can be in different states
 - Primary
 - Backup
 - Connected
- The status of the system is logged in `cconsole.log`
 - Instrument Manager - Mirror Member Role: Failover: This instance is configured as a failover member
 - Instrument Manager - Mirror Status:PRIMARY

Lab Intel Updates

- New Features

- Filter Widget

- New area to place filters so they don't disappear
 - Accessed by a new menu item on the dashboard (User Settings)



- Import/Export

- Updates to the Folder Manager to save a package of dashboards and pivots (all the dependencies) all at once.
 - Eases Deployment of dashboards by DI and Partners
 - Accessed from DeepSee>Admin>Folder Manager
 - Allows client-side save

- New Features

- Listing Groups

- Used for DrillDowns for a pivot table.
 - Easier setup of Custom DrillDowns
 - Accessed from DeepSee>Tools>Listing Group Manager

APIs, Architecture, Framework

- Communication between Client (User Interface) and Database are now encrypted using SSL.
- SSL Certificates are used for the encryption
 - Default Certificates are installed by default using OpenSSL during installation
 - Note: When using Mirroring, new Certificates will need to be created during setup
 - Customers are encouraged to purchase their own Certificates
- Communication with Web-based UI is also encrypted using HTTPS

Installation/Upgrade

- Upgrade Across Hardware Process further simplified. This just involves copying entire Databases folder from original system to new system and start Cache.
- Backup/Restore now allows restore from older IM versions back to v8.10.
- Multiple Users can access configuration simultaneously
- SM Tune Table “Selectivities” are now preserved on upgrade
- OS Support for Win10 and Server 2016
- Win7 32-bit support on IM server has been discontinued. Still supported on Thin Client

Questions?

Thank you for your time!

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Questions / Next Steps