

LEVERAGING TECHNOLOGY

USING ASSET VISIBILITY TO DRIVE OPERATIONAL
EFFECTIVENESS

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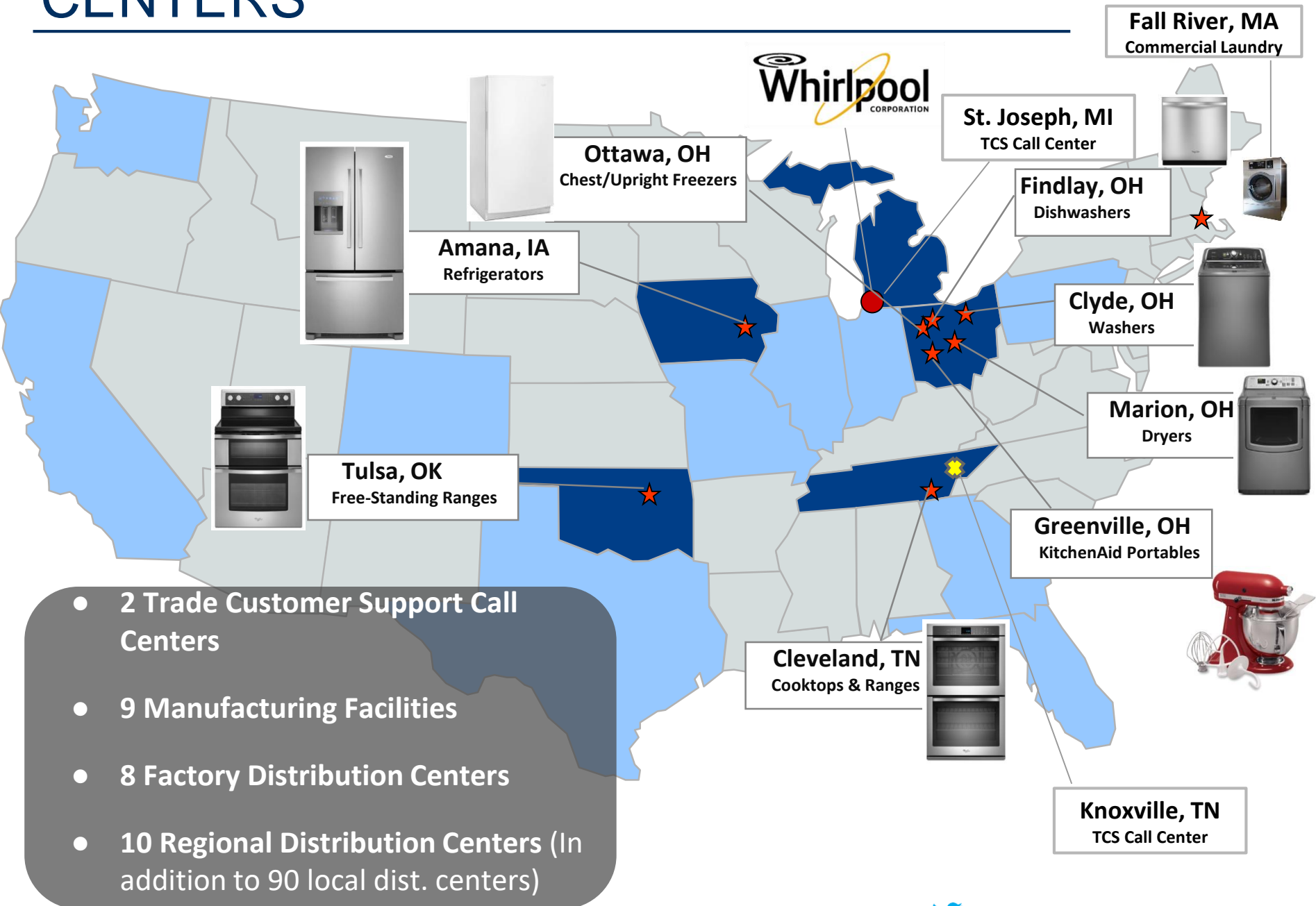
ABOUT WHIRLPOOL CORPORATION



Whirlpool Corporation is the number one major appliance manufacturer in the world, with approximately \$21 billion in annual sales, 97,000 employees and 70 manufacturing and technology research centers in 2015.



CENTERS



DISTRIBUTION



Monterrey, Mexico (2)
Refrigerators, Parts



Apodaca, Mexico
Washers



Ramos Arizpe, Mexico
Refrigerators

FDC Ramos

Cross Dock CUL

FDC CIAW

RDC Big Box

Cross Dock GDL

RDC Mexico

- 5 Manufacturing Facilities in Mexico
- 2 Regional Distribution Centers in Canada



Celaya, Mexico
Refrigerators, Ranges, Washers

FDC Celaya

RDC Celaya

Cross Dock VHSA



- ❑ Aged equipment
- ❑ Absence of device standardization
 - ❑ Multiple OEMs
- ❑ Rising repair costs, parts shortages
- ❑ Fragmented technology
- ❑ Lack of internal expertise
- ❑ No productivity or utilization metrics
- ❑ No clear visibility of the overall health of the system



Total overhaul of our mobile computing and RF device infrastructure needed

Hardware Replacement

- Correct mix
- Correct quantity
- Standardized equipment
- Latest technology

System Monitoring & Operational Visibility

- Utilization
- Uptime
- Labor productivity
- Reporting / KPIs
- Remote software updates

Third-Party Expertise

- Development and support



Project replaced all computers & scanning devices in North America

Hardware Replacement

- ❑ Apply “reality” to each site’s requests in terms of device mix and quantity

System Monitoring & Operational Visibility

- ❑ Remote updates
- ❑ Utilization

Third-Party Expertise

- ❑ Development cycle time cut by 55%
- ❑ Repair costs much more favorable by using a non-OEM repair facility, up to 65%



Tracking & monitoring each asset: Improved cycle time, costs & productivity

RFID for Asset Tracking

- Forklift Fleet
- Yard Management
- Machines and Tooling

Finished Goods Inventories

- In-warehouse inventories
- Network views
- Quality hold containment
- After sale support and service
- Post Consumer statistics



Enabling Total Life Cycle Tracking and Visibility

ALISON JONES

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