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Process Performance Solutions

Better Process Performance

- Advanced applications and services for better operations management and process optimization
  - Asset Management
  - Off-sites Management
  - Engineering & Operator Effectiveness
  - Process Optimization

**Improve Process Performance**
Better Business Performance

- Advanced applications and services to better manage business complexity, elevate production and optimize the supply chain
  - Collaborative Manufacturing & Intelligence
  - Operations Excellence
  - Supply Chain Optimization & Production Management

Improve Business Performance
OptiVision

• OptiVision
  – Suite of applications that provide Order-to-Cash capabilities
  – Organized under following groups
    • Customer Management & Order Services
    • Production Planning and Scheduling
    • Production & Quality Tracking
    • Inventory & Warehouse Management
    • Load & Shipment Management
    • Invoicing & Credit Management
    • Shop Floor & Business (ERP) Integration

• This roadmap focuses on the general release of the OptiVision software family as well as add-on application modules specific to OptiVision
OptiVision Modules

- **Customer & Order Management**
  - Order entry, inquiry, and status handling
  - Pricing and credit management
  - ATP, CTP & PTP
  - Web Order Services (Mobility Enabled)

- **Production Planning & Scheduling**
  - Demand forecasting; Sales & operation planning
  - Enterprise production planning and scheduling
  - Block scheduling, market allocation and ‘What-if’ analysis
  - Trim optimization, sheeter optimization scheduling, re-trim capability
  - Enterprise level raw-material forecasting

- **Production & Quality Tracking**
  - Production route and step optimization
  - Unit level identification and tracking; Bi-directional genealogy
  - Quality management and disposition
  - Sheeting, converting and wrapping

- **Inventory & Warehouse Management**
  - Work-in-process inventory
  - Finished goods inventory and movement
  - Bay allocation and optimization
  - Inventory accounting and reconciliation

- **Load & Shipment**
  - Shipping and logistics management; RF functionality and clamp truck automation
  - Load planning
  - Manifest/documentation handling
  - Carrier/Contract Management

- **Invoicing & Accounting**
  - Electronic Data Interchange (EDI) for invoicing
  - Payment terms handling
  - Multi-currency/taxes support
  - Claims processing
  - Variance analysis

- **Shop floor integration; Business (ERP) Integration**
  - Real-time interfaces for connectivity to automatic wrap lines, scales, footage counters and automated storage and retrieval systems (ASRS)
  - Application Programming Interface (API) based integration

Honeywell Proprietary and Confidential
OptiVision Value Proposition

• For Flat Sheet customers around the world that need a modern, reliable MES, Honeywell’s OptiVision® product line provides guaranteed return on investment, sustained benefits and the lowest total cost of ownership, unlike custom applications or competitive products that lack a long support horizon.

• OptiVision transforms Pulp, Paper & Flat Sheet businesses by enabling them to address the key issues that determine profitability. It promotes lower costs, accurate resource allocation, optimized selling prices and efficient scheduling through near real-time business performance visibility for improved decision making. Its tools promote in-depth understanding and control of the entire supply cycle.
Quality OptiMiser Value Proposition

• Quality OptiMiser
  – For customers in the Advanced Solutions Simple Value Buyer segment that need to:
    • Monitor and improve the quality, thereby increase profitability of production by defining quality envelope and operating as close to the targets as possible
    • continuously improve quality by capturing deviations, trends and calling attention to problem areas

  – Definable quality measurement and analysis processes (before and after cutting), checks and optimizes automatic pattern alignment and disposition, thereby resulting in significant savings.
OptiVision Technology Roadmap

**OptiVision Main Product**
- **OptiVision R540**
  - Core Functional Enhancements
  - Usability improvements
  - Mobility adoption
  - Trim Enhancements
- **OptiVision R560**
  - Trim Enhancements
  - Workflow Improvements
  - Centralized Planning
  - OEE & Intuition Executive based Dashboard
  - Warehouse & Logistics
  - CAB recommended Functionality & Features
  - AMS Focus

**Quality OptiMiser**
- **OptiVision Integrated Tools 13.9.xx**
  - Multi-Site Biz Server support improvements
  - UI refresh
  - Migrate leftover C++ code to C#.Net
  - Document Manager
- **OptiVision Integrated Tools 14.xx.xx**
  - Infuse Infragistics
  - Screen agnostic - Additional UI Capabilities

**QO R550**
- QO Integrated + QO Standalone
- Remove EDS dependency
- Simplify Installation

**QO R560 (Roll-over)**
- Integration tested with OV R560
- Platform updates
- RQUPs & Enhancements
- Platform updates

**QO R561**
- Growth Drivers
- Bug Fixes
- Platform Updates
- Adjacency

*skipping # 550 to sync with QO*
OptiVision R560.1*

• Planned release in February 2015
• Theme: Trim Enhancements & Growth focus
• Technical objectives
  – CAB Feedback: Respond to inputs received from customers through CAB/VOC by executing necessary analysis / research and deliver opinion / prototypes
  – Workflow improvement
    • Workflow design
    • Master data management ex: Grade spec maintenance
    • Event driven messaging ex: Credit status – user should be alerted on the change of credit status
  – Fit to screen, screen agnostic applications
    • Multi-form factor, multi-device (mobile) support
    • Web Forms support
    • HTML5 capability
  – ERP/SAP integration (Standard Product offering)
  – Warehouse & Logistics – improvements to applications, workflow & user interface
  – Centralized planning – multi-mill planning capability
  – OEE (Overall Equipment Effectiveness)
    • Define and create KPIs.
    • IX on Top: KPI Dashboard and Collaborative enabled Decision support workflow
    • Dashboard candidates
      – Mill Control Tower
      – Real Time Display

* These are forward looking plans, not commitments. Plans are very likely to change.
OptiVision R560.1* contd

- Planned release in February 2015
- Theme: Trim Enhancements & Growth focus
- Technical objectives
  - Reports & Print Management
    - Flexible reporting (exploit Infragistics) - e.g. PDF, Excel; report delivery via email;
    - Printable reports
    - Explore SSRS
  - AMS Focus – BGP Plus/BGP Performa
    - Grow AMS: System diagnostic tool; collaborative support services
  - Retain Valued Customers: Support upgrades and Standard Product RQUPs
  - Expand into Adjacency: Piggy back P3/CWS and target customers from their installed base.
    - Expand on their portfolio to upsell OptiVision,
    - QO and add-ons. Improve offering to adjacencies
    - Pulp – plug QO integration gaps
    - Tissue – improve warehouse area.
      - To be treated as volume as Tissue is shipped in cartons
    - Aluminum
    - Packaging
  - Tools Upgrade
    - Data Access Server capability from Intuition Core
    - Migrate Tools to C#.NET, removing C++ dependencies;
    - Infusion of Infragistics

* These are forward looking plans, not commitments. Plans are very likely to change.
Quality OptiMiser R560.1*

- Planned release in February 2015
- Theme: Standardize, Stabilize
- Technical objectives
  - Support for the following:
    - Wean out dependencies on OptiVision and maintain compatibility with prior releases as per AS criteria; maintaining backward compatibility with OptiVision releases so that customers can upgrade to latest QO independent of OptiVision release
    - Compatibility tests: minimum expected permutations: QO Feature additions Roll-up of PAR fixes and RQUP deliverables up to Dec, 2014 & Sync with OptiVision R560.1
    - Realign with P3/CWS requirements
  - Support new platforms
    - Windows 2012
    - SQL Server 2012

* These are forward looking plans, not commitments. Plans are very likely to change.
OptiVision Support Life Cycle

- OV 520
- OV 530
- OV 530.1
- OV 531
- OV 540
- OV 560 *

- Released
- Proposed
- * Projected

Timeline:
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
Quality OptiMiser Support Life Cycle

- **QO 510**: Released
- **QO 520**: Released
- **QO 530**: Released
- **QO 530.1**: Released
- **QO 550**: Released
- **QO 550.1**: Released

- **QO 560.1**: Projected

**Legend**:
- Released
- Proposed
- * Projected
# Technology Roadmap for OptiVision

## Database Support
- **2012**: Oracle 11g/12c, SQL/Server 2012
- **2013**: Microsoft .NET 3.5/4.0, Fortran 77, Xpress MP
- **2014**: Microsoft .NET 4.5, Fortran 77, Xpress MP
- **2015**:

## OptiVision Internals
- **2012**: Microsoft .NET 1.1/2.0
- **2013**:
- **2014**:
- **2015**:

## Math Solver
- **2012**:
- **2013**:
- **2014**:
- **2015**:

## Reporting
- **2012**: Crystal 2008
- **2013**:
- **2014**:
- **2015**:

## Visualization
- **2012**: TeeChart
- **2013**: IE 9/IE 10
- **2014**:
- **2015**:

## Intuition Core (DAS, Security) IntExecutive
- **2012**:
- **2013**:
- **2014**:
- **2015**:

## Collaboration
- **2012**: Document Storage using SharePoint 2010, 13
- **2013**:
- **2014**:
- **2015**: IX KPI & Dashboard Candidates:
  - Mill Control Tower
  - Real Time Display

## Mobility
- **2012**:
- **2013**:
- **2014**:
- **2015**:

## Operating System & Virtualization
- **2012**:
- **2013**: Windows 2012
- **2014**:
- **2015**: Windows 8, VM Ware

## Shop Floor Interfaces
- **2012**: TCP/IP communication with all Shop/floor devices
- **2013**:
- **2014**:
- **2015**:

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*Subject to Change*