



**EXCELERATE '22**

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**NO LIMITS**

# iBASEt Roadmap

Attila Labas

Sr. Director of Product Management

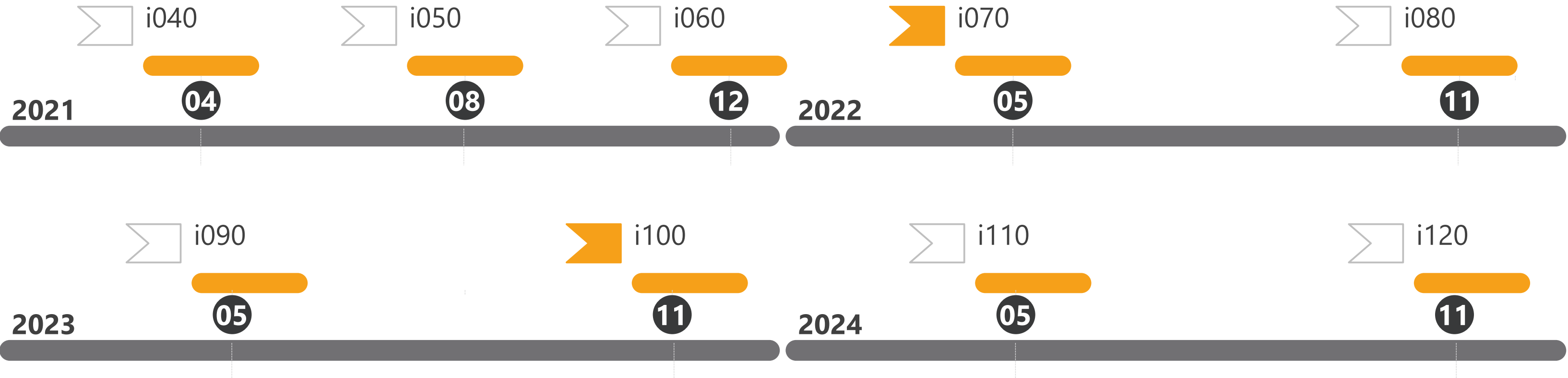
alabas@ibaset.com

[linkedin.com/in/attila-labas-356a9a111](https://www.linkedin.com/in/attila-labas-356a9a111)

## Today's Agenda

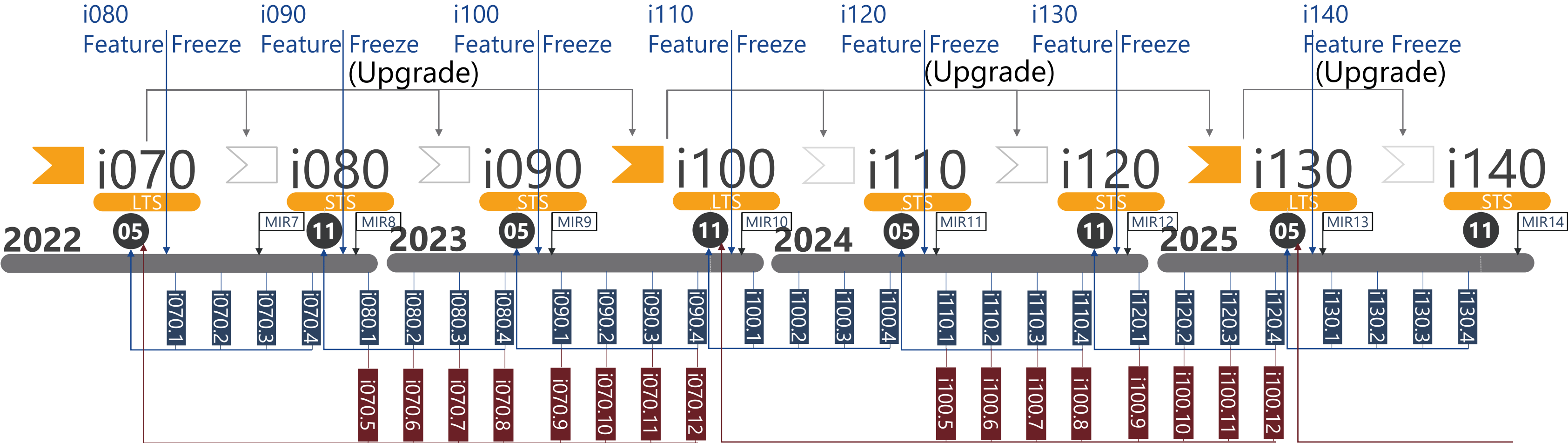
- Solumina iSeries Release Schedule
- iBASEt Requirements Management
- Current iSeries Roadmaps

# Solumina iSeries Release Schedule



- iSeries releases will be scheduled twice a year: 2nd Week of May and 2nd Week of November
- iSeries Patches, every 6-8 weeks (first priority on Security, second priority on Bugs)

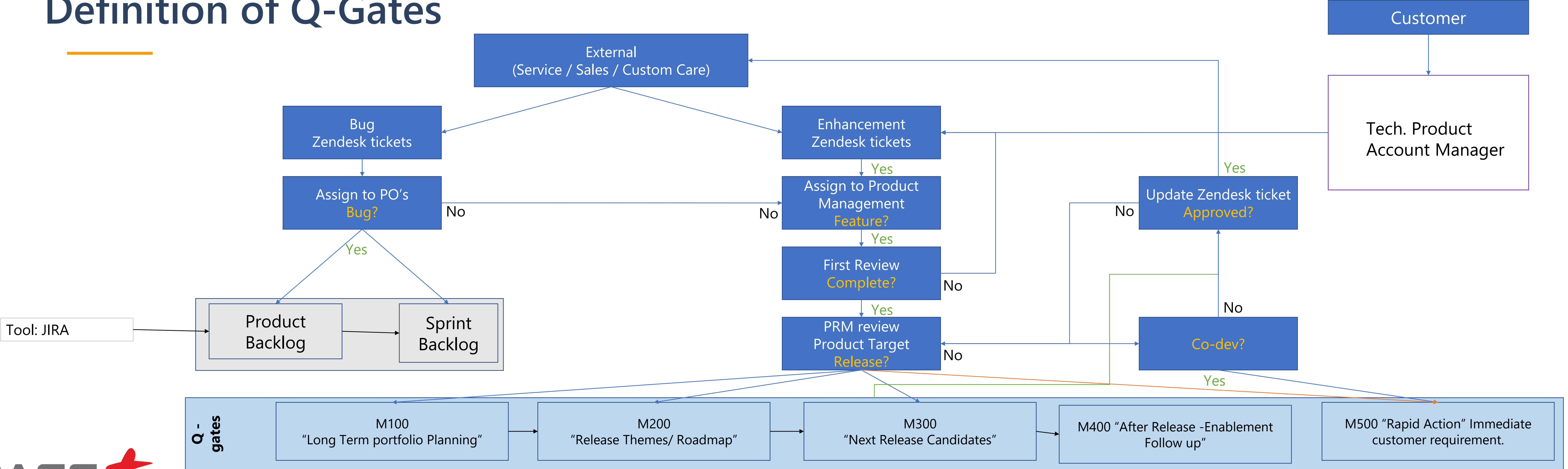
# iSeries Release Schedule



- **LTS:** Long Term Support Versions
- **STS:** Short Term Support Versions
- LTS and STS Releases Contain: New Functionality, Feature Enhancements, Contains All Prior and New Security Updates
- Each Release: Regular Patches Every 6-8 Weeks (cumulative)
- Upgrades Possible: from "any LTS + any HF" or from "any STS + any HF" to next up any STS until the following LTS (included)
- Grace Period for Upgrades: 6 Weeks for STS and 3 Months for LTS



# Definition of Q-Gates



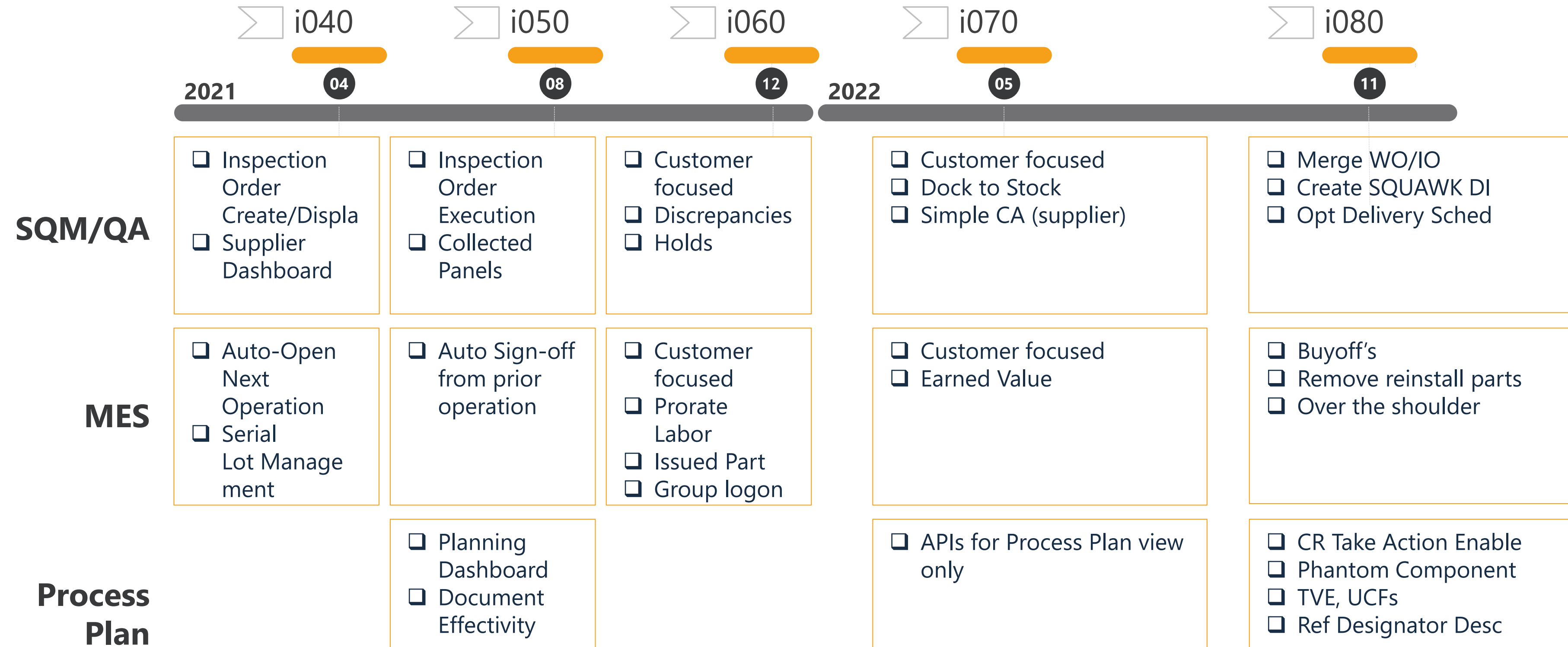
Tool: JIRA





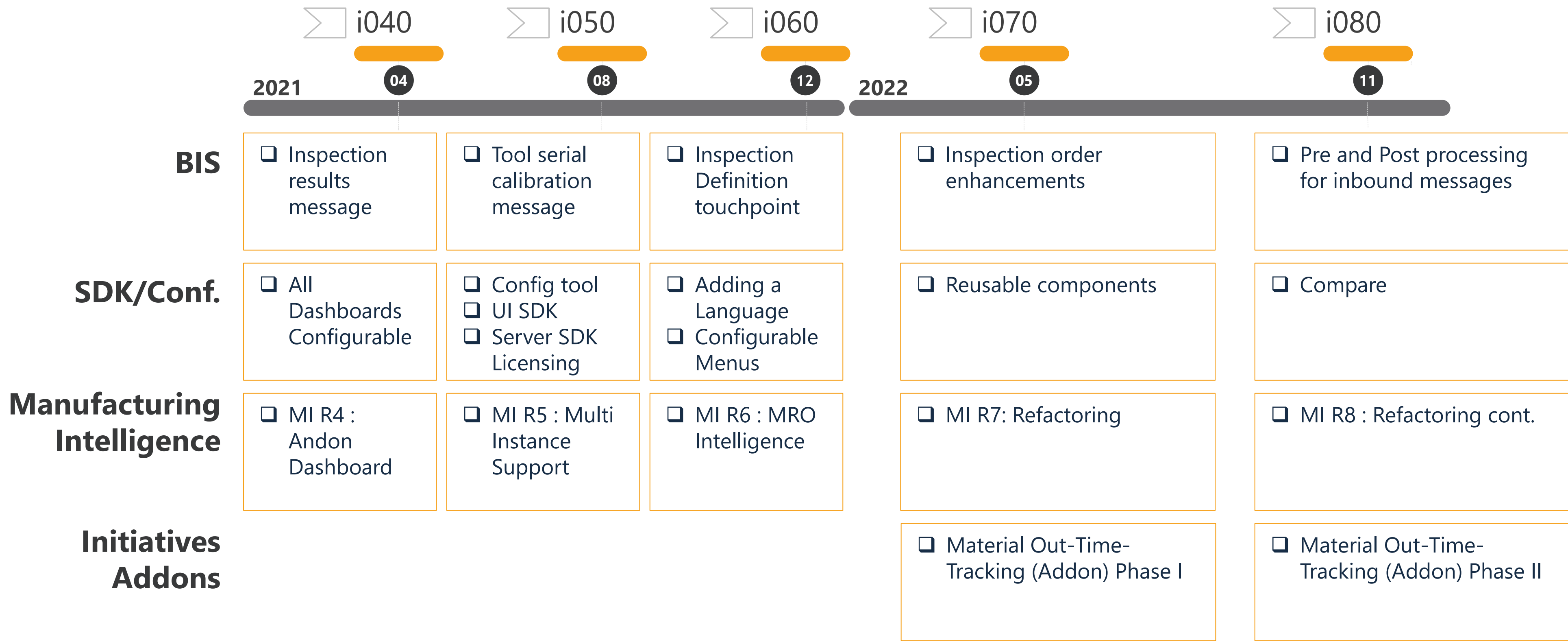
# Solumina iSeries Roadmap M100

# Solumina iSeries M100 2021-2022 1/2

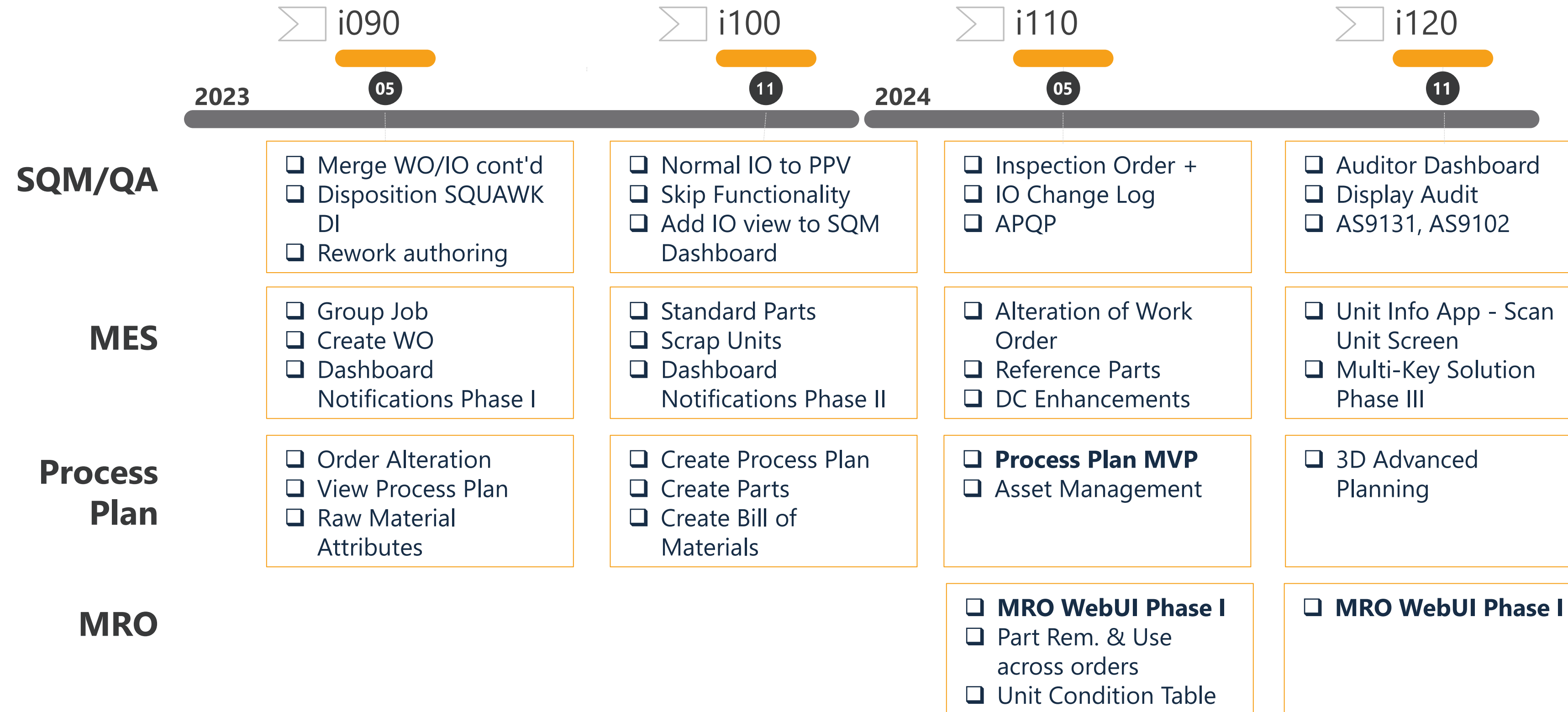




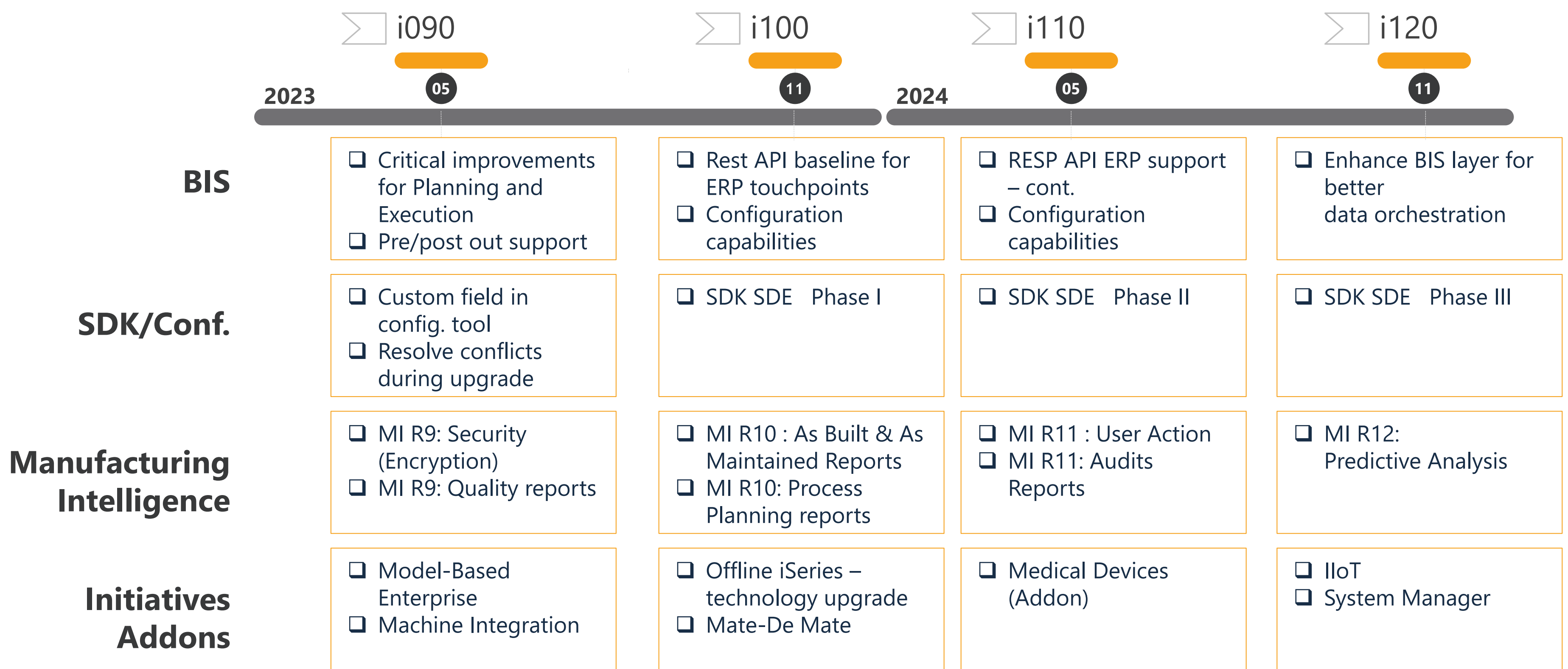
# Solumina iSeries M100 2021-2022 2/2



# Solumina iSeries M100 2023-2024 1/2



# Solumina iSeries M100 2023-2024 2/2





# Solumina iSeries Roadmap M200

# SQM Roadmap M200 1/4



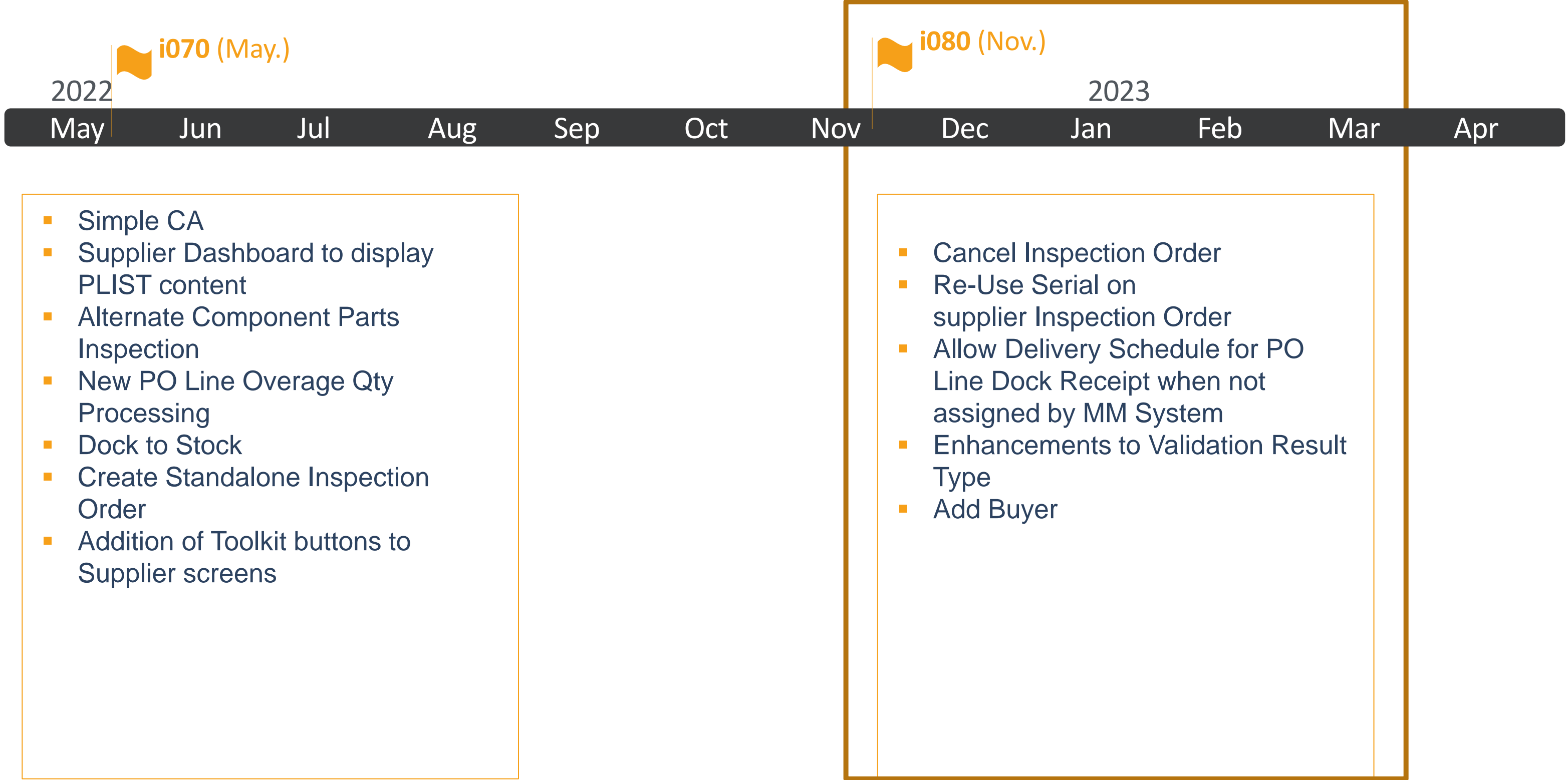
- **Supplier Dashboard**
  - Provides Inspector’s “to-do” list - including open PO Line Items and open Inspections
  - Able to create an Inspection Order from an open PO Line Item
- **Create Inspection Order**
  - Receiving
  - Source
- **Display Inspection Order**
  - inspection
  - sampling
- **Holds**
  - Defect Containment Hold
  - Discrepancy Hold
  - Overdue CA Hold
  - Overdue PPV Hold
  - Supplier Hold

- **External Supplier Access**
- **Inspection Order Execution**
  - Inspection Item Data Collections
  - Tool Data Collections
  - Checklist Questions
  - Authorization to Ship / Stock
  - Close Inspection Order
- **Holds**
  - Inspection Hold
  - Sample Identification Hold
  - Receipt Information Required Hold
  - Supplier Ship Hold
  - PPV(FAI) Hold
- **Collected Panels**
  - Inspection Item Data Collections
  - Tool Data Collections
  - Checklist Questions

- **Add Discrepancies to Supplier Dashboard**
- **Create an Inspection Discrepancy via**
  - OOS Inspection Item value
  - Checklist Question Reject
  - Create DI’ button
- **Update Discrepancy**
- **Display Discrepancy Item**
- **Disable the global search**
- **Component Inspection Items**
  - Need to Collect Panel
  - Collected Panel
- **Holds +**
  - Alternate Inspection Item
  - PO Identification Hold
  - Lien Authorization



# SQM Roadmap M200, *continued* 2/4



# SQM Roadmap M200, *continued* 3/4



- Add UCF's to Audit Plan Scheduling tables
- Assign Inspection Discrepancy to user

- Skip functionality
  - Skip Step/Inspection Item/Checklist Question/Tool DC
- Hide randomized steps while pending
- Disable defect containment hold for receiving inspection orders
- Add Inspection Order view to SQM Dashboard



# SQM Roadmap M200, *continued* 4/4



- Force Close Step
- Repeat Step
- Discrepancy Change Log
- Enhance Supplier Feedback on process order Discrepancies

- TBD





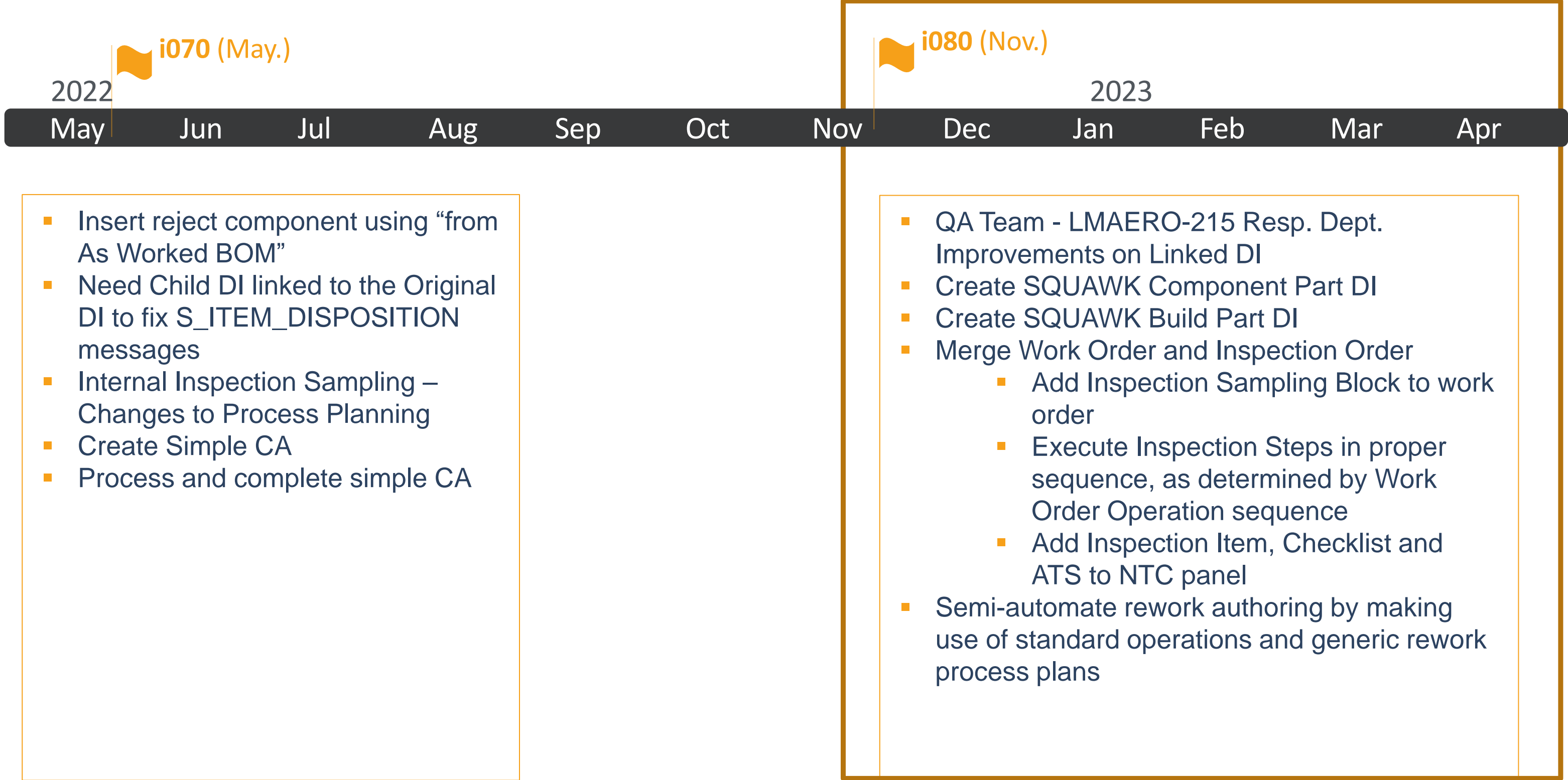
# EQMS Roadmap M200 1/4



- Adjust when Order goes into Alteration



# EQMS Roadmap M200, *continued* 2/4



# EQMS Roadmap M200, *continued* 3/4

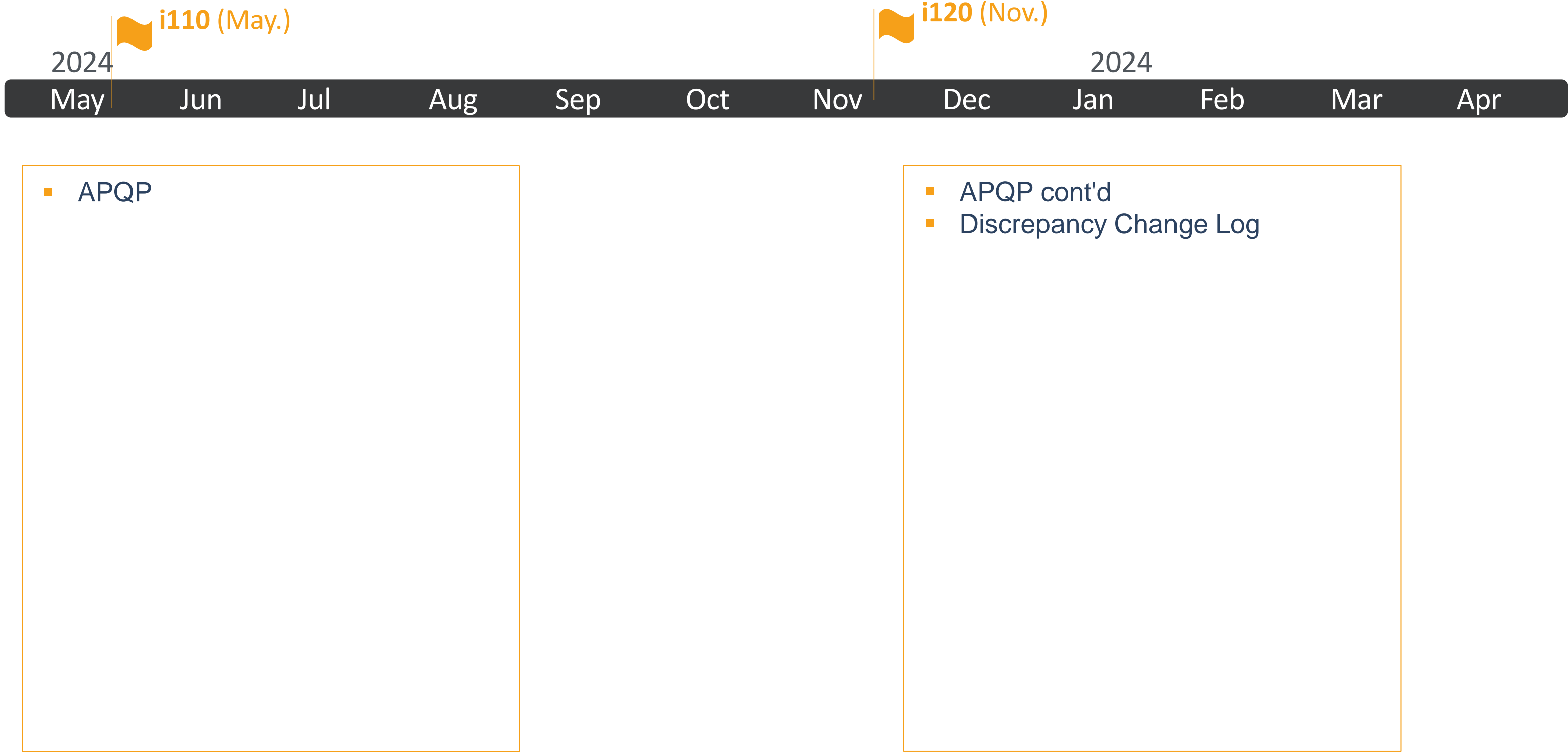


- Internal Inspection Sampling – Changes to work order execution
  - Return to previous operation
  - Split work order
  - Skip Operation
  - Work Order Alteration of Operations with Inspection Sampling
  - Stop unit(s)
  - Resume unit(s)

- Convert Normal IO to PPV and vice versa
- Create PPV Hold in Manufacturing Work Orders
- Internal Inspection Sampling – Changes to work order execution
  - Work Order supercede
  - Add Inspection Items, Checklists and Tools to Work Order Change Log
  - Ability to update previously collected values



# EQMS Roadmap M200, *continued* 4/4



# MES Roadmap M200 1/4



- **2D Barcode**
  - Part Data Collection
  - Parsing Mechanism for Multiple Formats
  - Supports ISO/IEC 15434 Format 06 and 12
- **Auto-Open Next Operation**
  - Based on global parameter
  - Open next operation upon prior completion
- **Serial and Lot Management**
  - Add Serial/Lot info For Technician and Supervisor

- **Auto Sign-off from prior operation Group Logon – Phase I**
  - Group Logon Changes on Login Modal and Global Parameter
  - Transaction authentication
    - Sign-On/Off
    - Part and Tool Data Collection
- **Prorate Labor – Phase I**
  - Create Prorate Group
  - Search and Assign Operations to Prorate Group
  - Bulk Sign-On/Off on Prorate Group
  - Display Active and Inactive Prorate Group
  - BIS integration to send prorated group to LTA system
- **Supervisor Group Sign-off – Phase I**
- **Unit Information Screen – Phase I**
- **Earned Value Reporting – Phase I**
  - SF Technician
- **Usability Enhancements – Phase I**

- **Operation Notes**
  - Attachments
- **Prorate Labor – Phase II**
  - Copy from existing Prorate Group to form a new Prorate Group
  - Adjust Prorate Tags value in a Prorate Group
  - Edit/Modify Prorate Group
- **Unit Information Screen – Phase II**
  - As worked report
  - Display DIs
  - Create Standalone DI on Unit
  - Display Holds
  - Display Qty for each of the Components
- **Earned Value – Phase II**
  - Supervisor View



# MES Roadmap M200, *continued 2/4*



# MES Roadmap M200, *continued 3/4*



- Dashboard Notifications Phase I
- Reject Serial Number
- Group Job Management
- Group Job Execution
- Partial Buyoff
- Create Work Orders
- Display Annotated Illustrations and Glyph on UI
- Alternate Tools
- Ref. Des. on Need to Collect Part DC
- Standard Reports Phase II
- Alternate Tools

- Multimedia Enhancements
- Buyoff History
- Part Limits Data Collection
- Production Hold on Component
- Lien Hold Updates
- WebUI Unit Info Enhancement
- Need Assistance
- Dashboard Notifications Phase II
- Dynamic Header and Footer Printing
- Standard Parts



# MES Roadmap M200, *continued* 4/4



- Alteration of Work Order
- Dashboard Notifications Phase III
- Reference Parts
- Tool Kitting
- Tools Serials
- Switch Users for Variable DC
- Automate Calculated DC
- Expose Calculations of DC
- DC Copy
- Standard Reports Phase II

- Unit Info App – Scan Unit Screen
- Request Material Replenishment
- Multi Sign-on/Completion of SN for high volume, low tact times
- Cross Order Data Collection and Buyoff
- Multi-Key Solution Phase III
- Maintain Change Log for Skipped Parts, Tools, and VDC
- Part Attribute Overrides





# SDK and Config. Roadmap M200 1/3



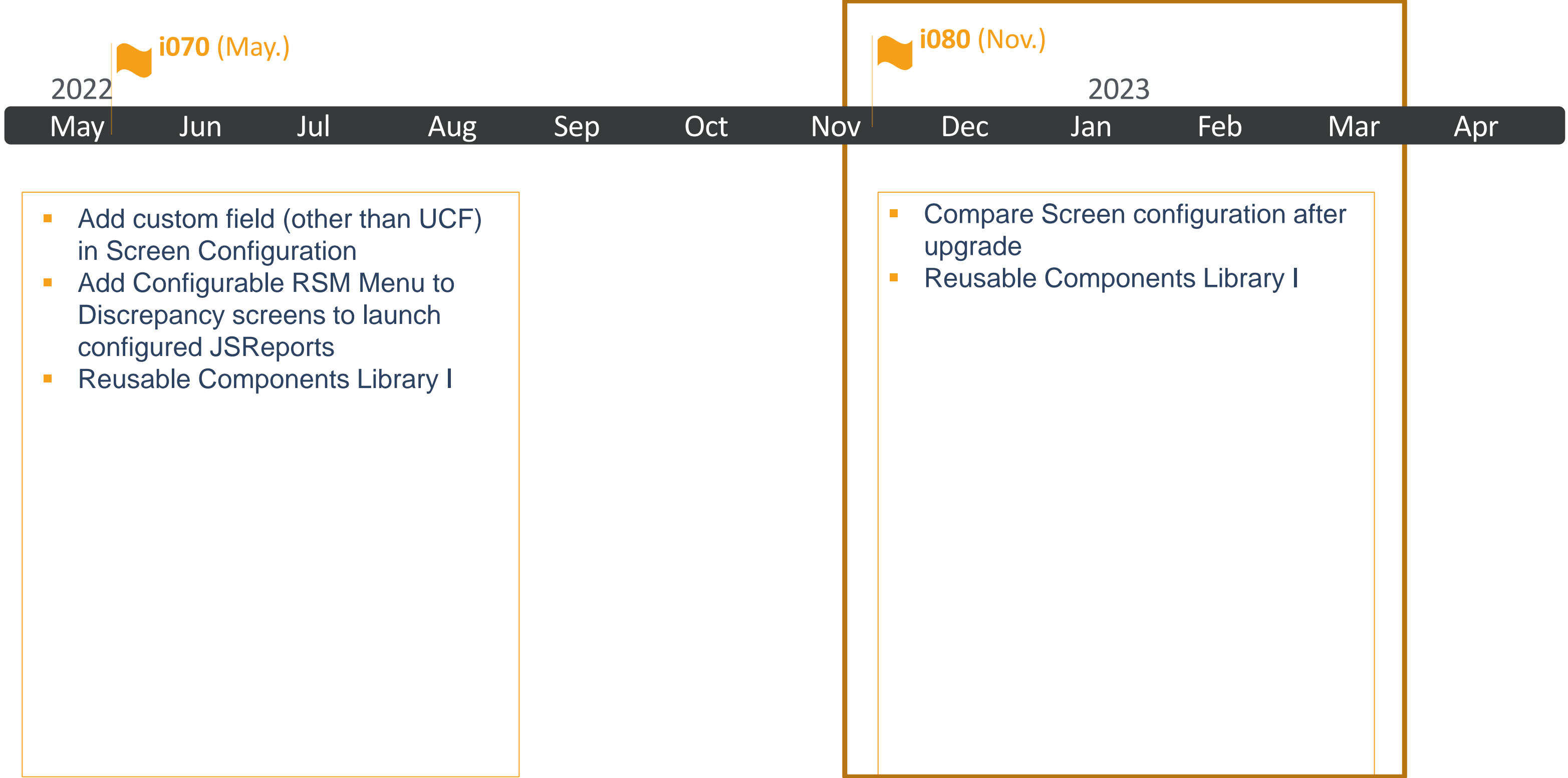
- **All Dashboards Configurable**

- **Config tool**
  - Original Label Visible
  - Apply New Format to All Screens
  - Fix the Order – Sequence
  - Card Positioning in Inactive Fields Section
  - Dynamic Population of the left menu
  - Label and Message Manager
  - All input data collection forms configurable
- **UI SDK**
  - Reusable Components Architecture – Phase I
  - Reusable Components Library
  - Documentation
- **Server SDK Licensing**

- **Configuration on Secondary Headers**
- **Adding a Language**
- **Configurable Menus**
- **Configuration on Input Forms II**
  - Configuration on DI Input Forms
  - Field Lookup lists based on APIs
  - Research DI Form Configuration based on DI Type and Workflow
  - Input Forms - Add Optional and Read-Only attributes to all field types.
- **Additional fields in Screen Configuration**



# SDK and Config. Roadmap M200, *cont. 2/3*



# SDK and Config. Roadmap M200, *cont.* 3/4



- Compare Screen configuration after upgrade

- TBD



# MRO Roadmap M200 1/2



- **MRO MVP**
  - WebUI for MRO Orders
  - WebUI MRO Component Condition Dispatch
- Track Part Removal & Use Across order in a work package
- Unit Condition Table Extension
- MRO orders able to request unplanned parts without altering the workorder
- Label creation for Serviceable Tag

- Workpackage view in WebUI
- Auto Update of Package Status , Package Actual Start Date in Work Package UDV.
- Life Limited Parts – cycle data collection in WebUI
- S\_ITEM\_DISPOSITION sends 'REMOVED'
- Work Package Discrepancy Lien against all Orders for Part
- Include/Exclude of TG and Ops in WebUI



# MRO Roadmap M200, *cont. 2/2*



- Extension fields for Item Disposition BIS Message
- System does not update Task Group status after supersede
- MRO Remove Action Updated in WO
- MRO - Handle Component Swaps and Exchanges
- MRO BOM: Resource Palette does not show BOM components in Supplemental Order
- Security Groups for Work Package

- Create ARC/CoC Forms
- Under WO Request dispatch, surface fields for Discrepancy ID and Discrepancy Line no.
- Order Creation and Task Group Inclusion tied to activity level
- OFD for MRO



# Process Plan Roadmap M200 1/4

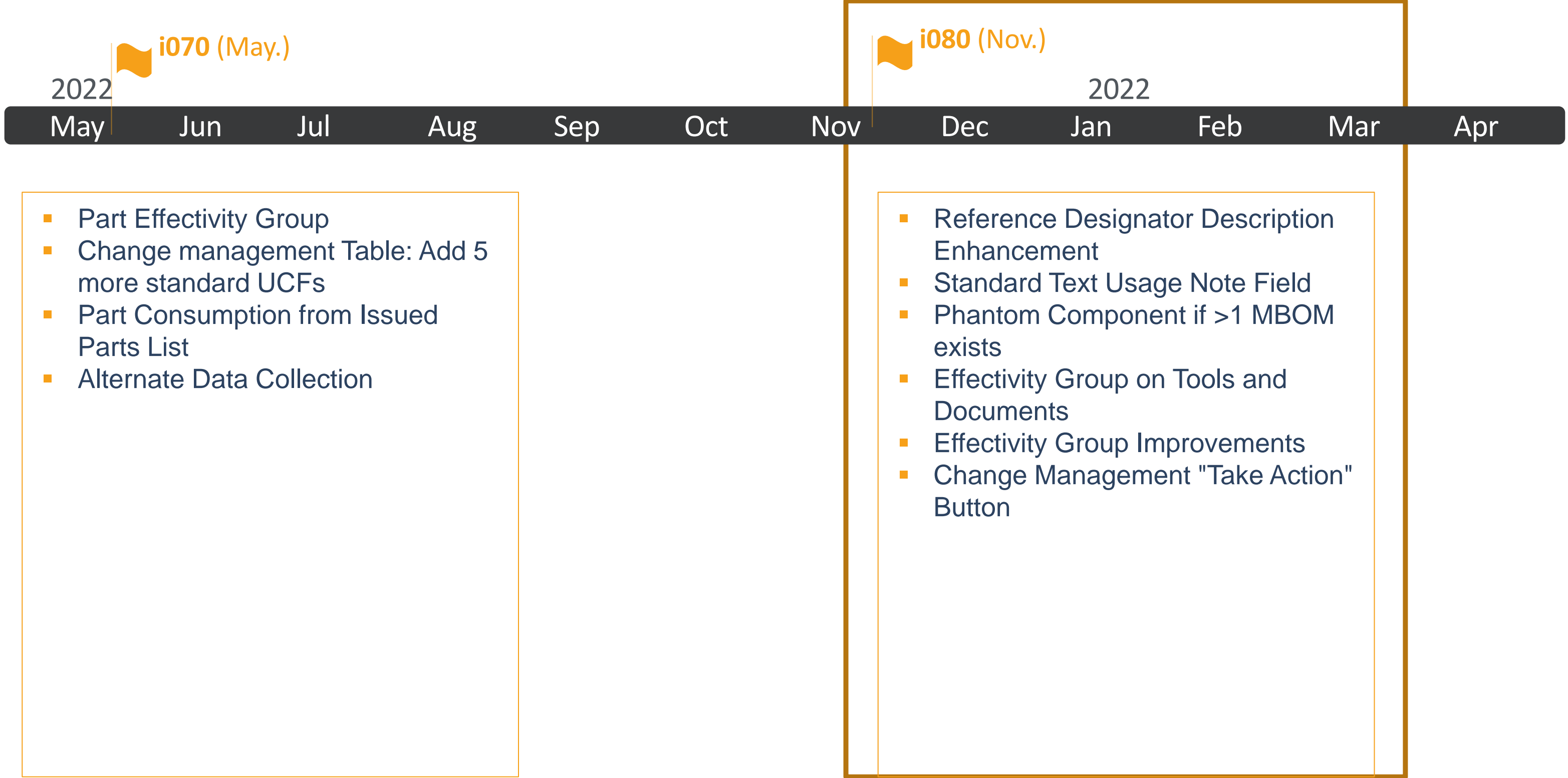


- **Dashboard:**
- Planner Supervisor Dashboard
  - Build Views
- Planner Dashboard
  - Filter by Program Location Project
- **Develop Planning APIs Related to Create Process Plan Header:**
- Add Effectivity on Tools

- **Planning Dashboard Enhancement**
  - Planner Supervisor Dashboard: Display all Plan Status
  - Planner Dashboard: Display Assigned/Claimed Plans by Planner
- **Middle Tier Planning Enhancement**
  - Make Work Location Field Mandatory under the Users Dispatch
  - Add Line no Column in the Order Tables
- **R&D on Authoring Process Plans**
- **Add Effectivity on Documents**
- **View Released Process Plan (Backend)**



# Process Plan Roadmap M200, *continued 2/4*



# Process Plan Roadmap M200, *continued 3/4*



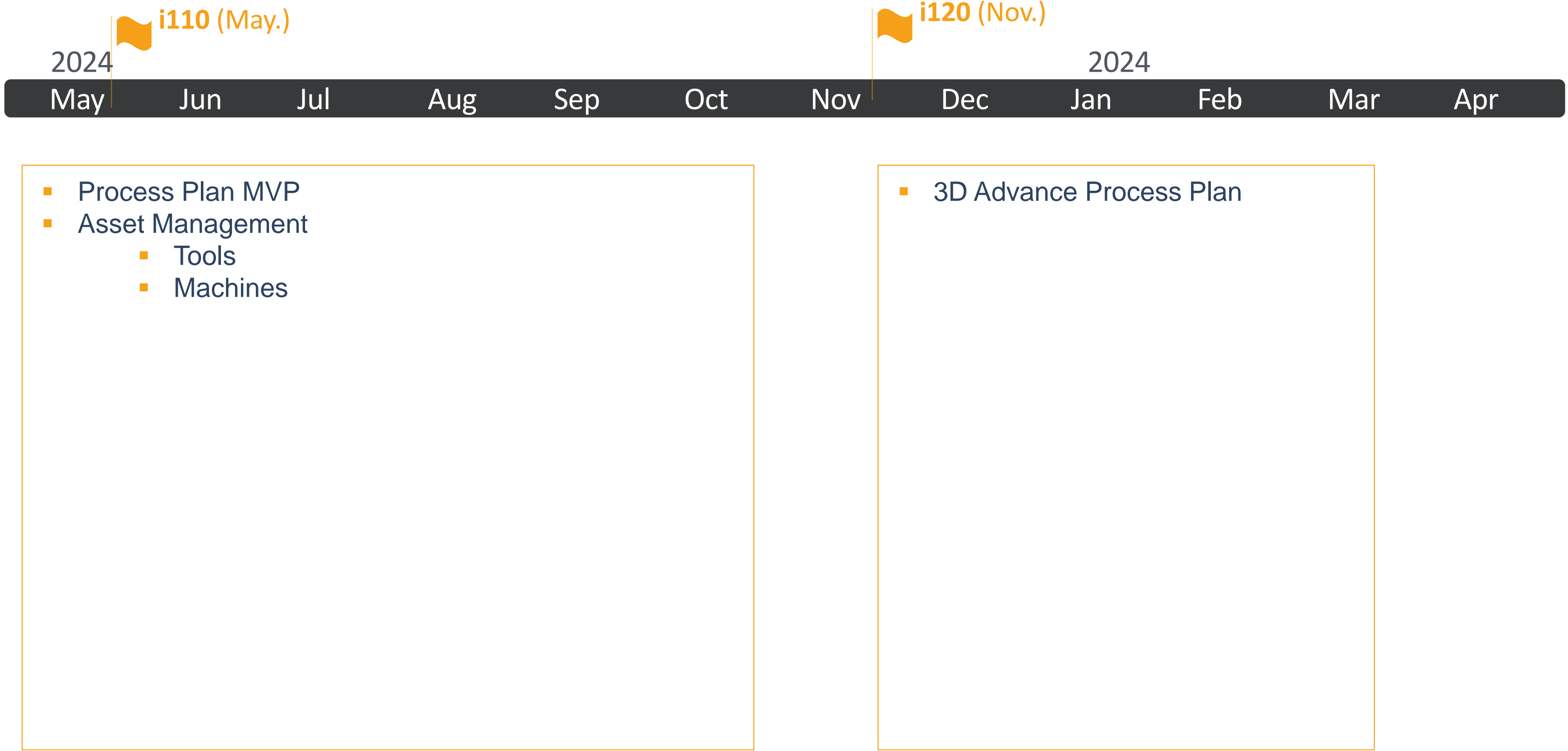
- Order Alteration
- Workflow assignment
- Associate Change Record
- Update Text
- Add, Delete, Resequencing Operations/Steps
- Add/Remove Components, Tools, Multimedia
- Add/Remove Update Data Collections, Buyoffs, Labor Standards
- View Process Plan
- Raw Material Attributes

- Create Process Plan
- Create Parts
- Create Bill of Material





# Process Plan Roadmap M200, *continued* 4/4



# BIS Roadmap M200 1/4



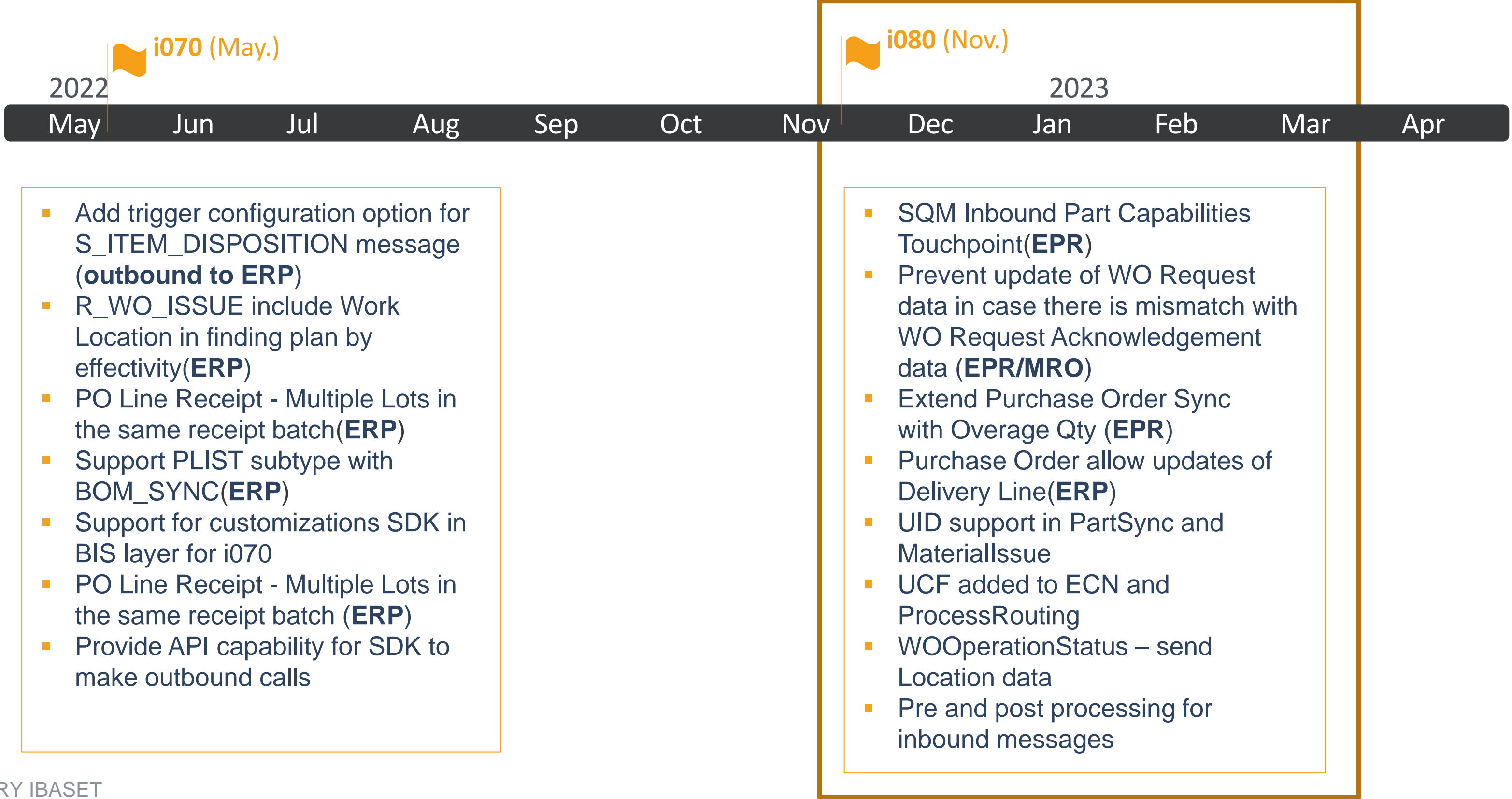
- Tool Serial Calibration Receive (**Multiple customers**)
- Model Based Definitions and PMI data (**PLM connector**)
- Management of CAD\_ID (**PLM connector**)
- Outbound Supplier Status Touchpoint (**SAP**)
- SDK for BIS customizations (**SAP**)

- Clickable links with R\_RoutingSync (**PLM and other external systems**)
- ECN Inspection Definitions (**PLM and other external systems**)
- Routing Step sequence (**PLM and other external systems**)
- S\_WO\_REVISION\_DELTA with operation links updates (**SAP**)
- Trigger configuration for S\_ITEM\_DISPOSITION message (**SAP**)
- S\_BOM\_SYNC BOM Component missing phantom flag (**SAP**)
- eQ Support in building connector (**EPR and PLM**)
- SDK for BIS - support for **Autotime as http calls**

- BIS enhancements needed to support SAP S4HANA Production Version
- Support URL as clickable links when received with R\_ProcessRoutingSync in RTF block
- Enhance ECN Sync to accept Inspection Definitions
- BIS Part Sync - Copy Inspections Plans and Requirement Groups on new Part Revision
- Process Plan Routing Receive to add a field for the Step sequence
- Enhance S\_WO\_REVISION\_DELTA with operation links updates
- S\_BOM\_SYNC BOM Component missing phantom flag



# BIS Roadmap M200, *continued 2/4*



- Add trigger configuration option for S\_ITEM\_DISPOSITION message (**outbound to ERP**)
- R\_WO\_ISSUE include Work Location in finding plan by effectivity(**ERP**)
- PO Line Receipt - Multiple Lots in the same receipt batch(**ERP**)
- Support PLIST subtype with BOM\_SYNC(**ERP**)
- Support for customizations SDK in BIS layer for i070
- PO Line Receipt - Multiple Lots in the same receipt batch (**ERP**)
- Provide API capability for SDK to make outbound calls

- SQM Inbound Part Capabilities Touchpoint(**ERP**)
- Prevent update of WO Request data in case there is mismatch with WO Request Acknowledgement data (**ERP/MRO**)
- Extend Purchase Order Sync with Overage Qty (**ERP**)
- Purchase Order allow updates of Delivery Line(**ERP**)
- UID support in PartSync and MaterialIssue
- UCF added to ECN and ProcessRouting
- WOperationStatus – send Location data
- Pre and post processing for inbound messages



# BIS Roadmap M200, *continued* 3/4



- R\_WO\_STATUS does not allow ERP created Holds on Orders (**ERP**)
- Support UCF in ItemDisposition(**ERP**)
- InitiateSplit(**ERP**)
- Support for MultyKey(**ERP**)
- Support critical stories for Planning area
- Support critical stories for Execution area
- Provide pre-processing for outbound messages

- TBD



# Manufacturing Intelligence 1/3

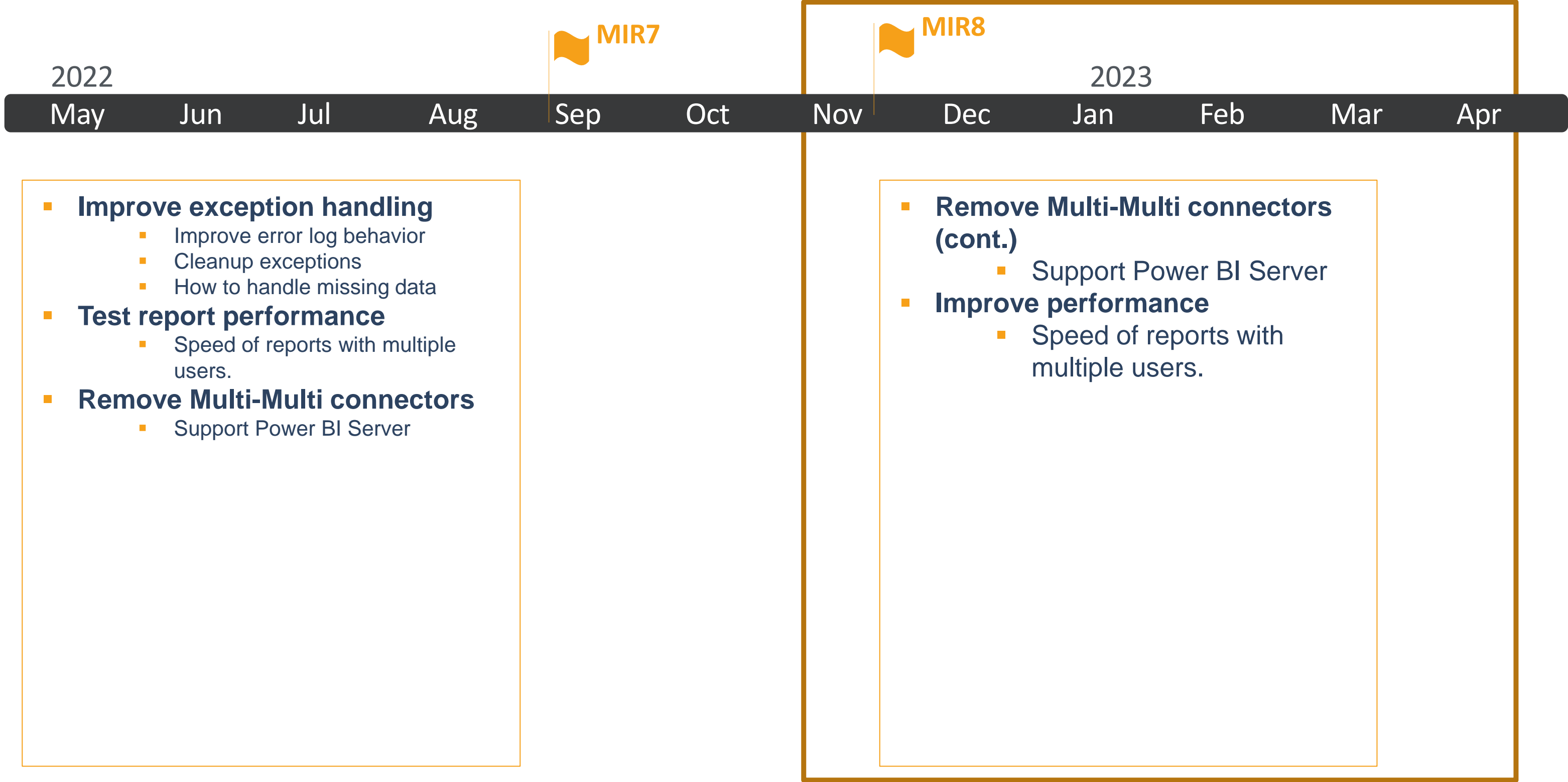


- **MI Multi Instance Support**
  - Oracle & SQL
  - Validated Up-to 3 Solumina Source connection
  - Ability to add more source instance, if required
- **Enhancement in Discrepancy and Operation Table**
  - Additional Table/ Fields for Discrepancy
  - Additional Table/Fields for User Activity
- **Historical /Andon Reports Updates**
  - Modification on all existing reports for Source Filter

- **MRO Reports**
  - Execution Reports
    - Weekly Status Report
    - Performance Optimization Report
    - Estimated Hours & Percent Complete Report
  - Planning Reports
    - Maintenance Touch Point Report
    - Average Plan Time Report
    - Plan Status Report
- **Security Enhancements**
  - Password storage in context files
  - Update Firewalls
  - Data Access of DB and License Management
- **MIUI Enhancements**
  - Docker Updates
  - Secured Login via SSL



# Manufacturing Intelligence, *continued 2/3*



# Manufacturing Intelligence, *continued 3/3*



- **Security**
  - Test Encryption for DB
  - Test Encryption for data transfer.
- **Supplier Quality Reports**
  - Part number supplier quality
  - Realtime supplier quality

- **As build As Maintained reports**
- **User Action Reports**
- **Process Planning Reports**





# Solumina iSeries Roadmap M300



# SQM

# EQMS



## i070

- NEWUI-11210 Reject Components from As Worked BOM
- NEWUI-12410 Dock to Stock Functionality
- NEWUI-13382 RMSISUP-722 Supplier Portal Display PLIST
- NEWUI-13662 QM - JIRA MOOG-47 - New PO Line Overage Quantity Processing
- PBL-11718 Internal Inspection Sampling – Process Planning Changes
- NEWUI-13851 Create Simple CA from a Discrepancy Item
- NEWUI-13852 Simple CA Display
- NEWUI-13853 Link Discrepancy to a CA
- NEWUI-13854 Add Corrective Action to Supplier Dashboard
- NEWUI-13876 Update Status of Corrective Action (QA Technician and SQA Inspector)

- NEWUI-13879
- NEWUI-13884
- NEWUI-13885
- NEWUI-14042
- NEWUI-14155
- NEWUI-14207
- NEWUI-14331

- Update CA Description for Simple CA
- Display CA from Discrepancy Item
- Update Issue Description in Simple CA
- RMSISUP-726 SQM Component Inspection Alternates
- PO APIs needed for configuration of PO Report (JSReport)
- Create Standalone Inspection Order
- Add Configurable RSM Menu to Discrepancy screens to launch configured JSReports

# SQM



# EQMS



## i080

- NEWUI-15649 Internal Inspection Sampling (web UI) – CR61/1
- NEWUI-13883 Improvements to Resp Info in DI linked to CA – CR82/DR153/DR213
- NEWUI-15895 Create Discrepancy of Type other than 'Process Order'
- NEWUI-11991 DI Create on out-of-range Data Collection
- PBL-12861 Add Audit UCF fields to Tool Scope
- PBL- 12472 Enhancement to Validation Result Type
- NEWUI-13661 Create/Manage Inspection Orders without Delivery Schedule
- NEWUI-14050 Cancel Inspection Order
- NEWUI-14802 Re-use of Serial on Supplier Inspection Order

- PBL-11996 Enhancements to Semi-Automate DI Rework Authoring – CR94
- NEWUI-15649 Internal Inspection Sampling (web UI) – CR61/2
- NEWUI-12692 QA + Enhancement to iBASEt Add Buyer Assignment to Various Procurement Related Tables and Display Screens – CR100
- NEWUI-15896 LMAERO-645 QA Team Can't attach implemented DI to CA – DR212
- NEWUI-16053 Add fields to Discrepancy Item in web UI
- NEWUI-18972 Add UCFs to DI Create Screen so that information is copied when using autofill

# MES

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## i070

- **NEWUI-981**      **Alternate Data Collection**
- **NEWUI-983**      **Part Consumption from Issued Parts List**
- **NEWUI-10990**      **Restrict sign-on based on User Skills**
- **NEWUI-12724**      **Perform Part DC at lower level from higher level**
- **NEWUI-12862**      **Dashboard Access - Multiple dashboards for a single user**
- **NEWUI-15064**      **Prorate Labor III**
- **NEWUI-15154**      **Batch Move - Work Order Operation Navigation for Serialized Parts**
- **PBL-9029**      **Remove and Reinstall part at lower-level surrounding scenarios**
- **PBL-12061**      **Change management Table: Add 5 more standard UCFs**
- **PBL-12117**      **Order Locate - Phase1**

# MES

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## i080

- **NEWUI-12724** Perform Part DC at lower level from higher level
- **NEWUI-16027** Work Order – Return to Prior Operation – Enhancement – CR46
- **NEWUI-16304** Multi-Key Solution Phase I – MK/1
- **NEWUI-11647** Earned Value Reporting – Phase 2 – CR71/1
- **NEWUI-998** Switch Users for Buyoff
- **NEWUI-997** Skip Buyoff
- **NEWUI-15164** Over the Shoulder Buyoff with Over Inspection Capabilities
- **NEWUI-14312** Order Locate Phase 2 (Card View) – CR50/1
- **NEWUI-16417** Add privilege – Remove attachment (Work Order, DI, and Plan) – CR25
- **NEWUI-16303** EX Team #7111 - Sort by more than 100 items – CR75
- **NEWUI-17119** Order Locate Phase 3 (Business Logic) – CR50/2
- **NEWUI-17118** Earned Value Reporting Phase 3 – CR71/2
- **NEWUI-16341** Multi-Key Solution Phase II – MK/2
- **NEWUI-14304** Rejection i050 Web UI - CR62 - EX\_Supervisor View Mechanic's Current Labor – C
- **NEWUI-16403** Export solumina files with Classification – CR60
- **NEWUI-15500** Regressed Functionality – User Cannot View a List of Orders - DR 150
- **NEWUI-16948** KIT ID and Location Display in Available Kits or Scanned Kits Section
- **NEWUI-16808** Eliminate the need to confirm the scan
- **NEWUI-17504** Table View Screen Configuration/Regressed Functionality
- **NEWUI-13757** MOTT - Material Out Time Tracking

# Screen Configuration

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# Software Developer Kit



## i070

- **NEWUI-15060** Add custom field (other than UCF) in Screen Configuration
- **NEWUI-14331** Add Configurable RSM Menu to Discrepancy screens to launch configured JSReports
- **NEWUI-13074** Reusable Components Library I
- **NEWUI-13072** Documentation Reusable Components I
- **NEWUI-13071** Reusable Components Architecture - Phase I

# Process Plan

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## i070

- PBL-12061 Change Management Table: Add 5 More Standard UCFs
- NEWUI-983 Part Consumption from Issued Parts List
- NEWUI-981 Alternate Data Collection

## i080

- PBL-12976 Enable/Disable the Add/Update Effectivity for Illustration Button Should Appropriately be Based on the Mode (workflow) for Standard Operation and Process Plan
- PBL-12973 Epic 2 for Effectivity Group Improvements
- PBL-12951 Change Management, Action Item, Take Action Enablement
- PBL-12939 Create and make available the UCFs in Standard Text, Files, Illustrations
- PBL-12179 MBOM - Cannot have Phantom Component if >1 MBOM exists for component
- PBL-11811 Effectivity Group - For Tool and Documents for BOMs, Plans and Orders
- NEWUI-16769 Add Description and UCFs to Reference Designator

# BIS

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## i070

- **PBL-11877**      **Removed comp. in MRO order**
- **PBL-11674**      **Support PLIS Subtype with BOM\_SYNC**
- **PBL-11459**      **Modify 3D viewer to access file stored on S3 bucket service**
- **PBL-11574**      **Additional Delivery Schedules on PO/PO line BIS transactions**
- **PBL-11497**      **Extend Purchase Order Sync with Overage Qty**
- **PBL-11575**      **PO line receipt = Multiple lots in the same receipt batch**
- **PBL-11874**      **R\_WO\_ISSUE include Work Location in finding plan by effectivity**
- **PBL-11872**      **S\_ITEM\_DISPOSITION messages issues for Component SCRAP and lot-controlled components**
- **PBL-11412**      **Support customizations in BIS layer**
- **PBL-11716**      **IYEM DISPOSITION XML message**

## i080

- PBL-12565 Provide UCFs for Bill of Process - Data Collections
- PBL-12566 Provide UCFs for Bill of Process – Buyoffs
- PBL-12091 PO\_Sync-Receive to revise PO Lines and delivery schedules
- PBL-12060 R\_PART\_SYNC fails after R\_PO\_SYNC
- PBL-12934 R\_BOM\_SYNC to support phantom kit for BOM component
- PBL-12179 MBOM - Cannot have Phantom Component if >1 MBOM(Multiple area epic) - Include the Phantom selection option for selecting BOM in the BIS
- NEWUI-16027 Work Order - Return to Prior Operation – Enhancement(Multiple area epic) - Unit Status, Operation Status & Order Status Outbound Message
- NEWUI-14802 LMAERO-585 Re-Use Serial on supplier Inspection Order(Multiple area epic) - Add PO Line Category to PO\_Sync Message
- TCI-14 Validate PLM Connector on Linux – Teamcenter
- NEWUI-10988 Embedded 3D File Viewer as part of MBE initiative
- PBL-11941 WorkOrderOperationStatus-Send Location Data
- PBL-11784 SQM Inbound Supplier Capabilities Touchpoint
- PBL-11783 SQM Inbound Part Capabilities Touchpoint
- PBL-13302 Include UID when report part consumption-as built in BIS
- PBL-13293 Part Sync – Receive – Add UID Data Elements to BIS Interface
- PBL-12961 Extend the new UCF to be supported with ECN Sync BIS message
- PBL-13297 Update R\_MATERIAL\_ISSUE interface to include UID of issued parts (from ERP)



# Manufacturing Intelligence



## MIR6

- MI-1399 MI Security and License Enhancement
- MI-1398 MI Installation on Azure
- MI-1231 MRO reports

## MIR7

- MI-1370 MIUI Enhancements
- MI-1426 SQA Reports- Phase 1
- MI-1400 ETL Updates and Enhancements
- MI-1463 Improve Exception handling

## MIR8

- MI-1370 MIUI Enhancements
- MI-1426 SQA Reports- Phase 1
- MI-1400 ETL Updates and Enhancements
- MI-1463 Improve Exception handling



**THANK YOU**

**QUESTIONS?**