



IBM Case Manager 5.2.1 and Architecture Overview

Business Partner Field Enablement Workshop



IMPORTANT NOTICE

- •Product plans referenced in this document may change at any time at IBM's sole discretion based on market opportunities or other factors and are not intended to be a commitment to future product or feature availability in any way. All statements regarding IBM future direction or intent are subject to change or withdrawal without notice and represent goals and objectives only. All information is provided "AS IS", without warranty of any kind, express or implied. IBM will not be responsible for any damages arising out of the use of, or otherwise related to, this presentation or any other documentation. References to IBM products do not imply that they will be available in all countries in which IBM operates.
- •Each IBM customer is responsible for ensuring its own compliance with legal requirements. It is the customer's sole responsibility to obtain advice of competent legal counsel as to the identification and interpretation of any relevant laws and regulatory requirements that may affect the customer's business and any actions the customer may need to take to comply with such laws. IBM DOES NOT PROVIDE LEGAL ADVICE OR REPRESENT OR WARRANT THAT ITS SERVICES OR PRODUCTS WILL ENSURE THAT THE CUSTOMER IS IN COMPLIANCE WITH ANY LAW.
- •The information contained in this document:
 - Is intended to outline an aspect of IBM's general product direction and should not be relied on in making a purchasing decision;
 - Is for informational purposes only and may not be incorporated into any contract; and
 - Is not a commitment, promise or legal obligation to deliver any material, code or functionality.
- •The development, release and timing of any features or functionality described for IBM products remain at IBM's sole discretion.



Objectives

This lesson is designed to enable you to:

- Understand the business value of the new capabilities in IBM Case Manager 5.2.1
- Overview and architecture for typical environments
- Prepare for the remaining sessions and labs in this workshop





Key Themes and Customer Benefits



Streamlined Software Management and Deployment

 Reduction in loosely coupled, separately managed components will significantly reduce complexity and troubleshooting that negatively impact time to value

Enhanced Solution Development

 Deliver faster time to ROI by making it easier to design, build and deploy case solutions

More Case Centricity

 Providing case workers with more visibility into the state of a case and offering additional capabilities to drive cases to successful outcomes

Much More Flexible and Extendable Case Client Application Platform

 Deliver a client application platform that is consistent with other ECM solutions and allows much more reuse of existing components when customizing or extending

Streamlined Software Management and Deployment





Simplified Install and Deployment



Web Based Administration

Enhanced Solution Configuration





Built-in Rules



Collaborative Solution Design

More Case Centricity

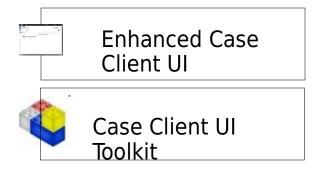


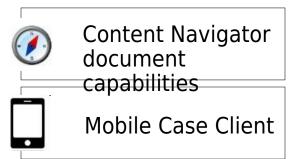
Case Visualizer



Case Worker Defined Task Flows

Much More Flexible and Extendable Case Client Application Platform









Streamlined Software Management and Deployment



Built On 5.2 Platform



Simplified Install and Deployment







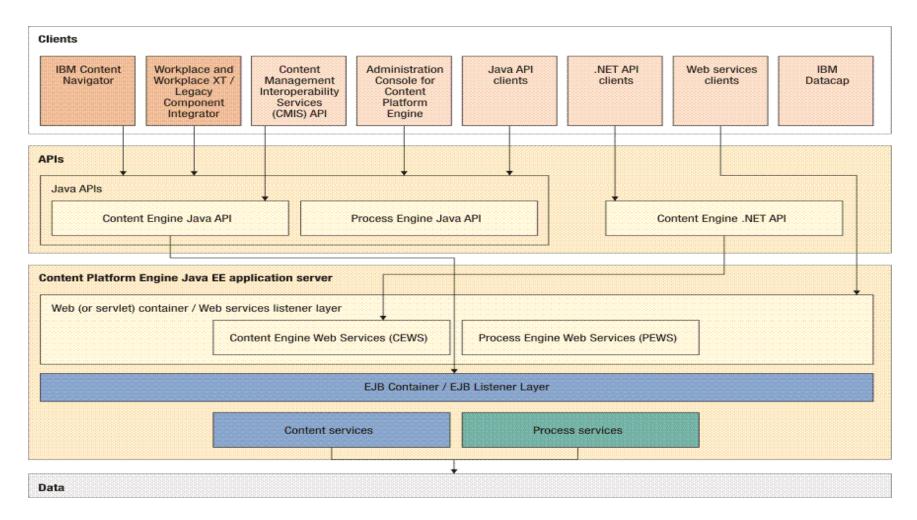
Built on the 5.2 Platform

Significant reduction in effort and cost to plan, install and maintain ECM services for enterprise scale deployments

- Unified Content and Process server (CPE)
- Single installer for CPE
- Web-based administration client (ACCE)
- Components that previously were separate now run in CPE EAR
 - Component manager services
 - Case Analyzer services (collector/publisher)
- Case Analyzer services now support Linux/Unix
- Additional enhancements for IBM Case Manager

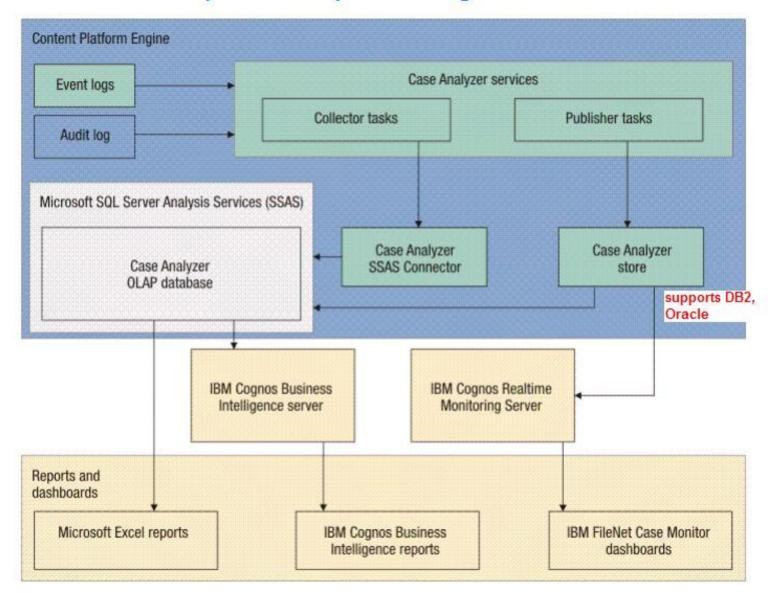


Content Platform Engine Architecture



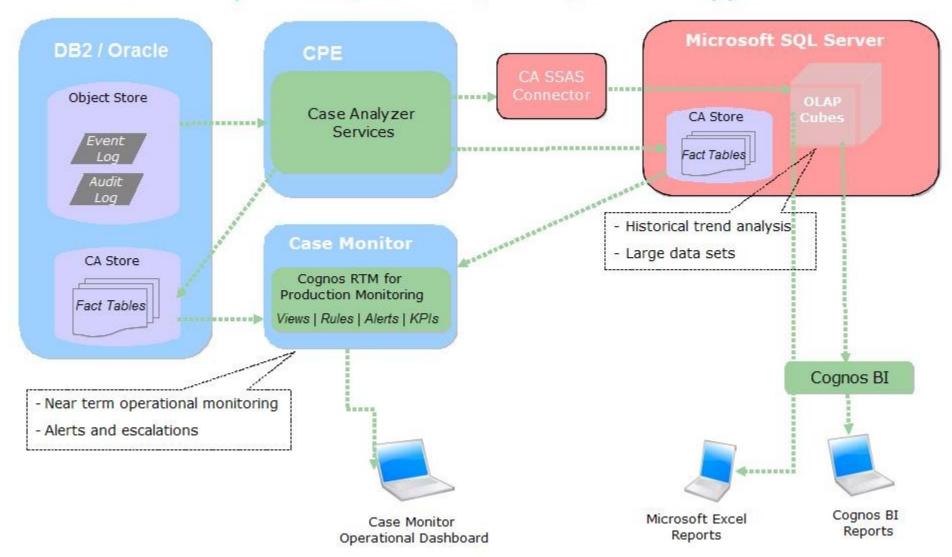


CPE 5.2 - Case Analyzer as a publishing service





CA 5.2 - Multi platform | database | store | schema support





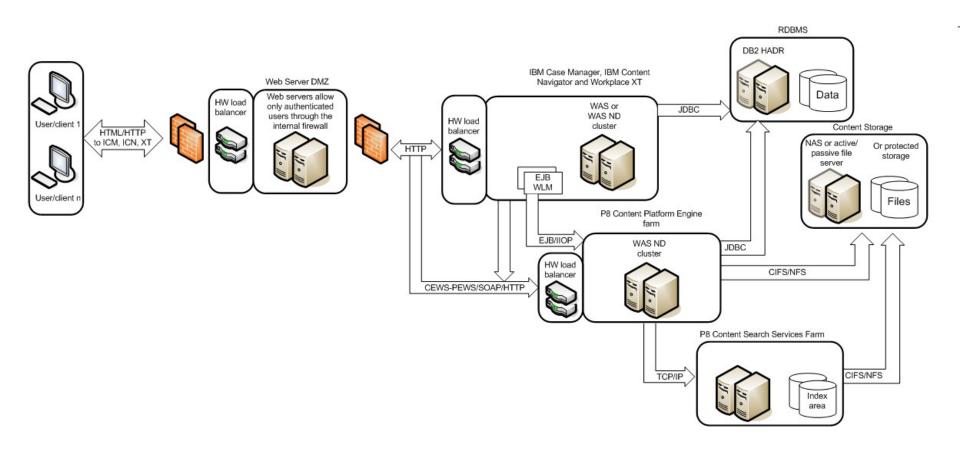


Simplified installation and configuration

- CPE 5.2 platform convergence simplifies installation, backup/restore and HA/DR configuration
- Removal of Business Space for the user interface removes an installer, a database and simplifies HA/DR configurations
- Workplace XT is no longer required in test/production environments
 - Unless using form policies, or have other custom dependencies from your solution



Example of High Availability Deployment







Improved solution deployment

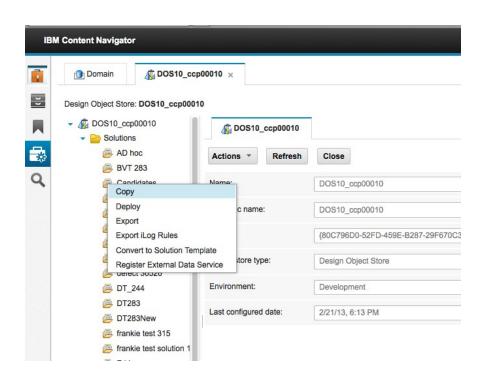
- New wizards simplify configuring security and auditing, including moving the configuration between environments
- FileNet Deployment Manager enhancements make it simpler to move assets between environments
- Improved documentation makes it easier to move solution assets between environments
- New tool supports optionally updating existing case instances to use tasks defined in a later version of a solution





New administration tool

- Web-based IBM Case Manager Administration client
 - Deploy solution
 - Copy solution
 - Manage project areas
 - Promote solution to template
 - Export solution
 - Security configuration wizard
 - Audit/History configuration wizard
 - IBM Content Navigator plug-in





Enhanced Solution Configuration







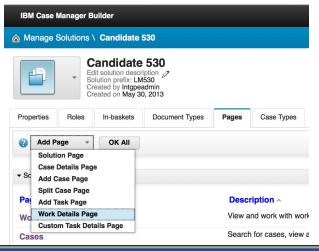


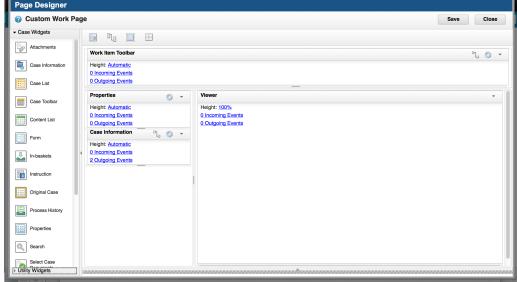


Page layouts configured in Case Builder

| Marche | Marche | Marche | Marche | March |

- Page layout designer integrated directly in Case Builder
 - Replaces Business Space
- Default pages generated for each solution
 - Modify and add new pages
 - Configure page layout
 - Edit widget settings to customize
 - All toolbars and menus are configurable
- Widgets similar to ICM 5.1.1 iWidgets
 - Register your own custom widgets and toolbar/menu actions
 - Wire widgets together, and script using Java Script Adaptor



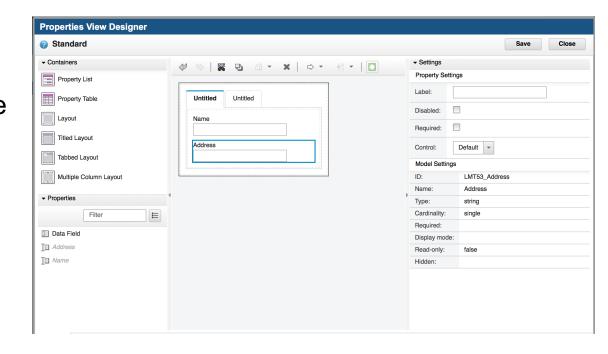






Property layouts configured in Case Builder

- Configure how case properties are displayed to users
- Multiple 'views' enable different property layouts for different pages
- Settings enable finegrained control
- Continued support for electronic forms designers (eForms, IBM Forms)

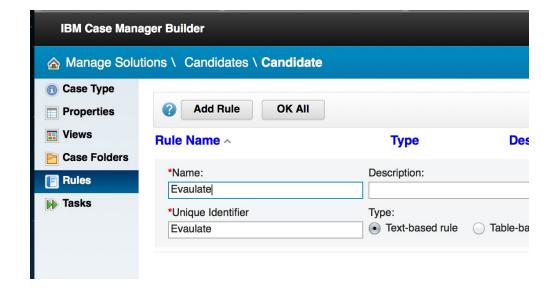






Rules integrated in Case Builder

- Define rules directly in Case Builder
 - Makes it easier for the Business Analyst to author rules without the need for learning and using separate tools
- Separate installation and administration of the ILOG platform is no longer required for basic rules
- Ability to export rules to fully featured IBM Operational Decision Manager (ODM)



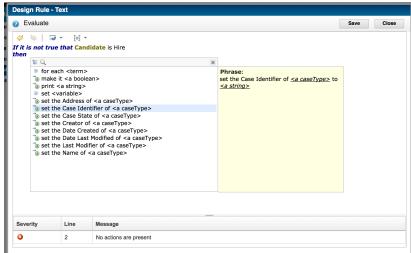


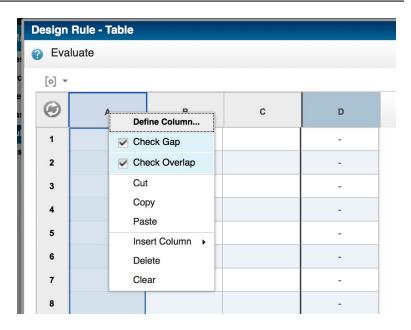


Rules integrated in Case Builder

Two types of rules

- Text-based, natural language rules
- Decision table
- Access/update case properties from your rules rules
- Execute a rule as a step in a task (uses a component step)
- Supports defining external variables that are not specific to a case instance
 - E.g. Interest Rate
 - You provide the external value from the task process

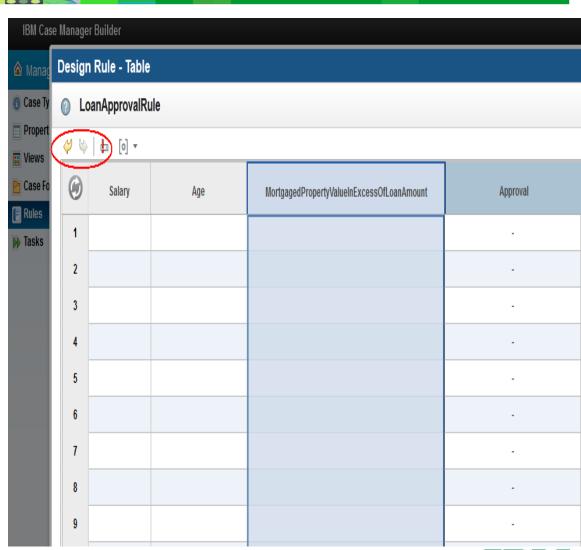






Embedded Rules Improvements – ICM 5.2.1

- Table-based rules have been improved
 - Undo
 - Redo
 - Preconditions





Embedded Rules Improvements – ICM 5.2.1

- Preconditions enable you to test data before executing rules inside a decision table
- If the preconditions are not satisfied, the rules in the table are not executed
- Use preconditions to declare variables that can be used in the decision table rules

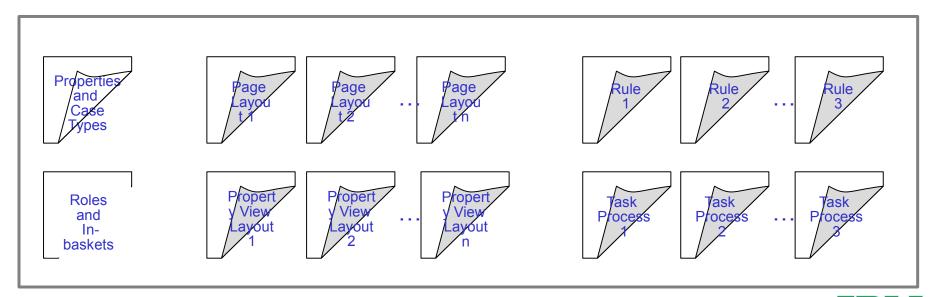




Collaborative solution design

- Developer efficiency improved because multiple users can edit a solution in Case Builder at the same time
- Changes are saved as drafts until you are ready to commit and deploy changes

The following items are locked for editing:			
My locked items:			
Туре	Name	·	
Candidates\View	Standard		
Page	Case Details		
tems locked by other use		Man.	
Туре	Name	User	
None			





Unlock the Solution Artifacts when no changes are done

- In the earlier releases of Case Builder, the artifacts of the Solution were getting locked even when a user opened and closed, just to view them.
- We were not releasing the locks when no changes were done to them and this caused unnecessary overhead of maintaining the locks.
- In 5.2.1, if you open the artifacts in Case Builder to view them and then close without making any changes, the artifacts are unlocked. This change applies to the following artifacts:
 - Solution Definition File
 - Workflows
 - Pages
 - Rules
 - Views
 - Process Engine Configuration File

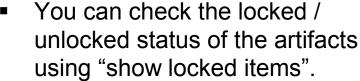


Unlock the Solution Artifacts when no changes are done (contd)

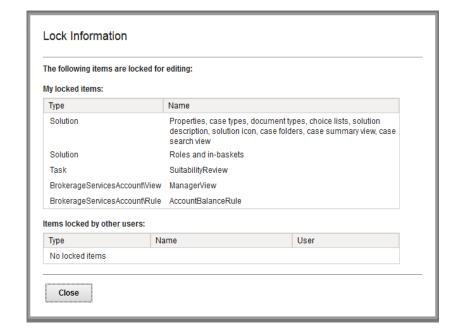
- The Solution Definition File is unlocked if the following are opened in the solution and closed with no changes:
 - Properties, case types, document types, choice lists, solution description, solution icon, case folders, case summary view and case search view
- The Process Engine configuration file is unlocked if the roles and inbaskets within the solution are opened and closed with no changes.
- If the workflow for a task is opened in the Step Designer and the Step Designer is closed without making any changes to the workflow, the task is unlocked.
- If a view is opened and closed with no changes in view designer, the view is unlocked.
- If a rule is opened and closed with no changes in rule designer, the rule is unlocked.
- If a page is opened and closed with no changes in page designer, the page is unlocked.

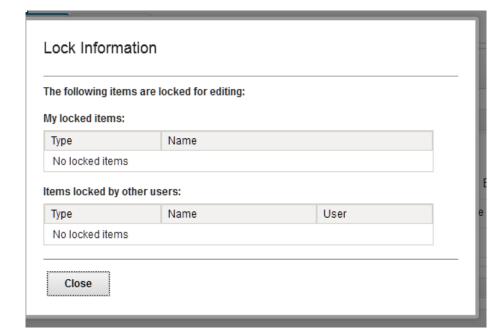


Checking locks when no changes are done











More Case Centricity



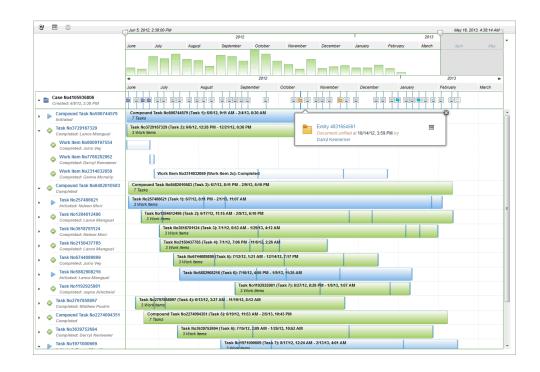




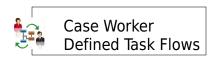


Case visualizer and history

- Highly visual, easy to use, case timeline that gives case workers a one stop overview of what's happening in the lifecycle of a case
- Provides more visibility into state of tasks and the work items behind them
- (Preview) Includes a new history snapshot feature that allows you to inspect the state of a case at any moment in time and easily discover changes that were made
- Data culled from CE audit event and PE event logs

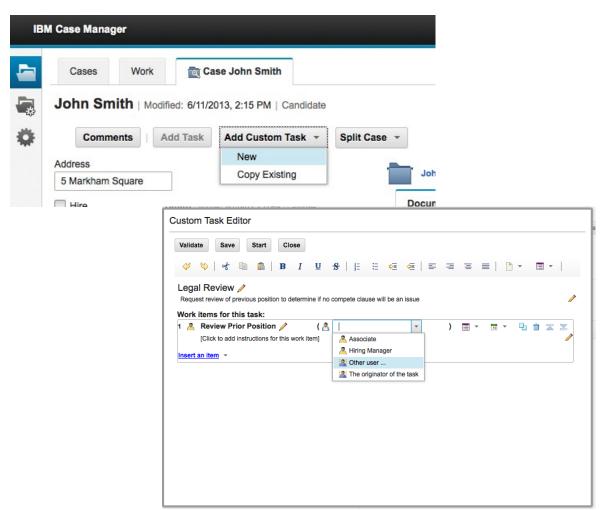






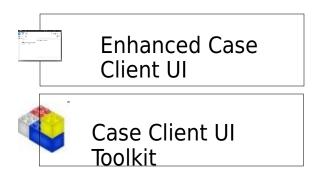
Case workers can define task flows from Case Client

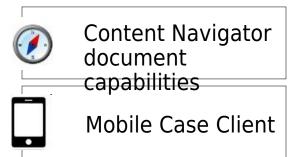
- Authorized case worker can define a sequence of actions that need to be performed on a case
- Supports use cases where the task flow is not well understood/known ahead of time
- Intuitive outline style textbased editor, enables defining work for humans
- The user is also able to copy and modify existing custom tasks when creating new ones

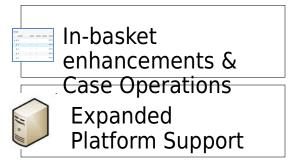




Much More Flexible and Extendable Case Client Application Platform





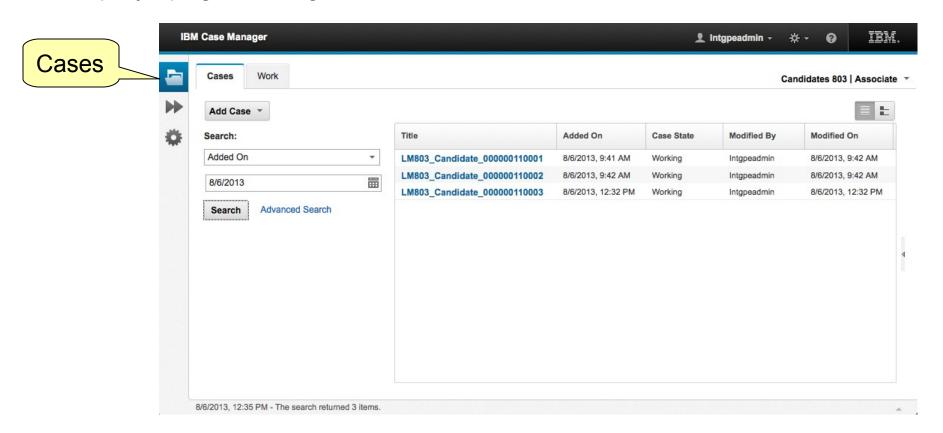






Improved Case Client web user interface

- Improved user interface, integrated in IBM Content Navigator
- Displays pages configured in Case Builder

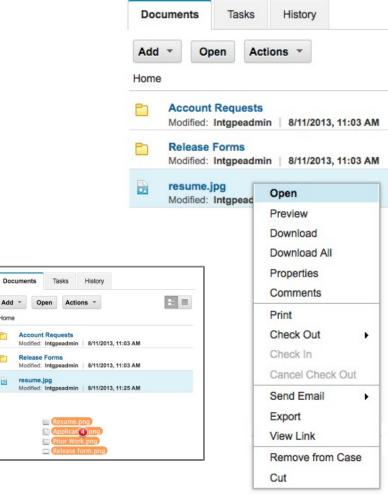




Improved document capabilities

Content
Navigator
document
capabilities

- Document related features in Case Client leverage IBM Content Navigator APIs
- Includes
 - Multi-select drag & drop from the file-system to add a case document or attachment
 - Additional information available in the Properties dialog – including versions, where filed, security
 - Entry templates (designed in XT, end user UI in ICN)
 - Edit properties for multiple documents
 - Document comments
 - Document download counts
 - ...

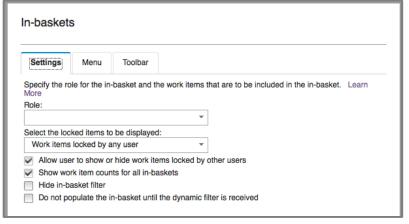


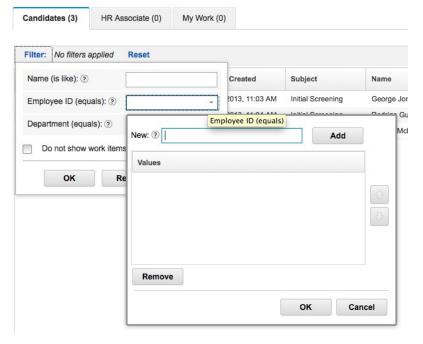


In-basket widget enhancements

- In-basket displays updated case properties
- Optionally show count on each in-basket tab
- Filtering improvements
 - Enable 'OR' conditions in filters, all conditions are ANDed together, but you can provide more than one value for a particular filter
 - Select Case Type in a user filter
 - Option to not show work items locked by other users
 - More flexible dynamic queries in an event, including conditions not included in the user filter
 - Suppress rendering the in-basket until the filter event is received











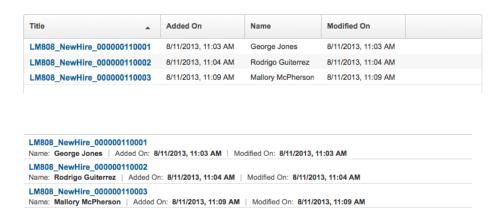
Search and Case List widget enhancements

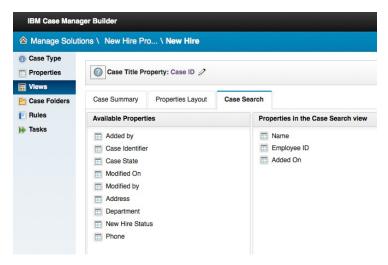
Case List

- Supports grid view in addition to 'magazine' view
 - Sort on any column
- Configure Summary view to defines column shown in Case List grid
- Configure toolbar, in addition to context menus

Search

- Configure if users can add additional search criteria in Advanced Search
- Configure Search view to include system properties to show in search



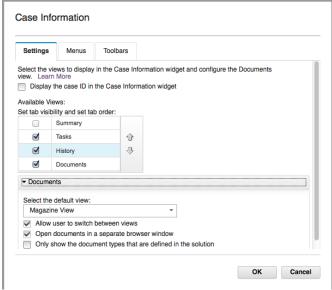






Case Information widget enhancements

- Change tab order
- Embed custom tabs
- 'Magazine' or 'Detail' view for case documents

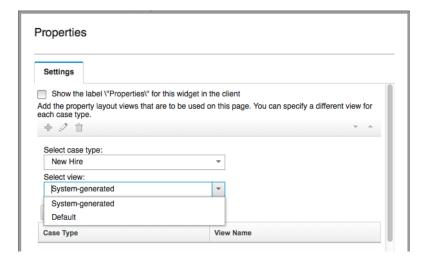


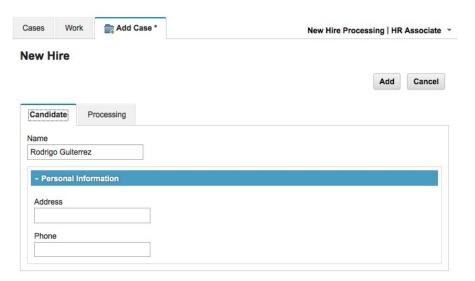


Widget enhancements & Case Operations

Properties widget enhancements

- Use the property layout designer in Case Builder to define views
- Use a Properties widget setting to configure the view to use for a case type



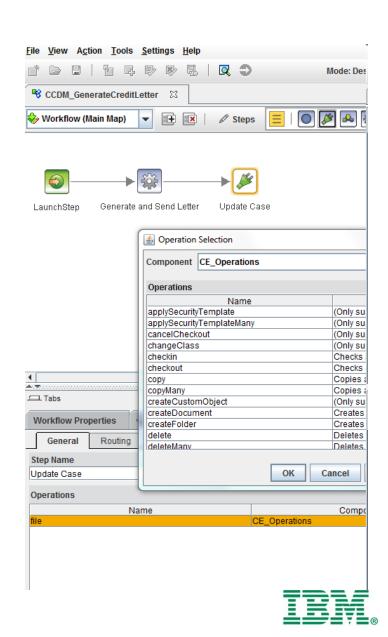




Widget enhancements & Case Operations

Case operations

- Out-of-the-box Case Manager component operations simplify solution development
- Extends what can be done today using the general CE_Operations
- Example operations include:
 - Create new cases of a specified type
 - File documents into case folders
 - Create subfolders under case folders
 - Create discretionary tasks
 - Terminate workflows in cases
 - Add case comments
 - Get and set case properties





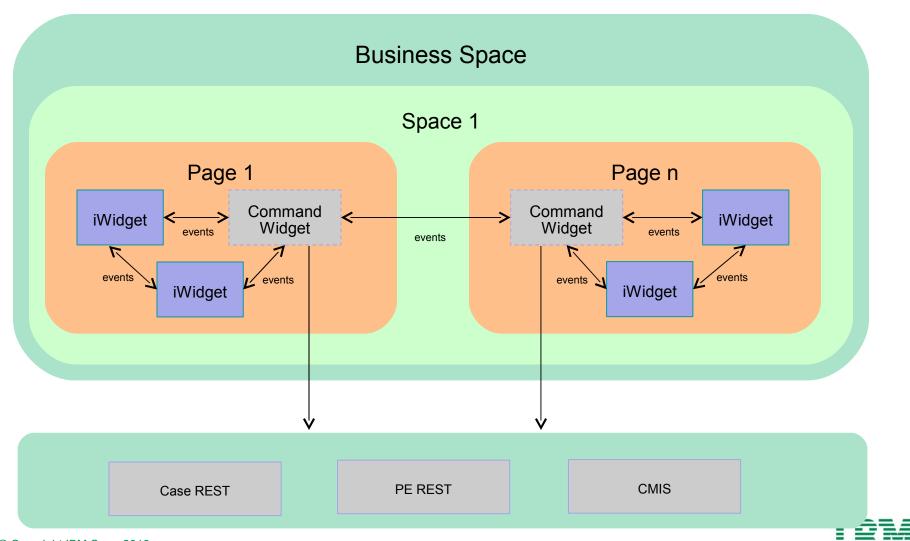
Levels of Design and Associated Effort and Skills

Solution, properties, roles, document types, in-Level 1 Define baskets, case types, case folder, tasks, rules Case Page layout, toolbar and menu config, Builder summary view, search view, property views, widget settings Case Builder. Process design, security configuration, audit Process Designer, Case Manager Admin, configuration, widget Level 2 Configure Admin Console for CPE. wiring, rules, Form Uls, custom Reports, custom Reporting tools, ICM/ICN JavaScript Toolkits dashboards Integrations, ICN JavaScript Toolkit Custom UI ICM JavaScript Toolkit Level 3 Customize IDEs, HTML, CSS, Dojo, JavaScript, Servlets, Java APIs, ...



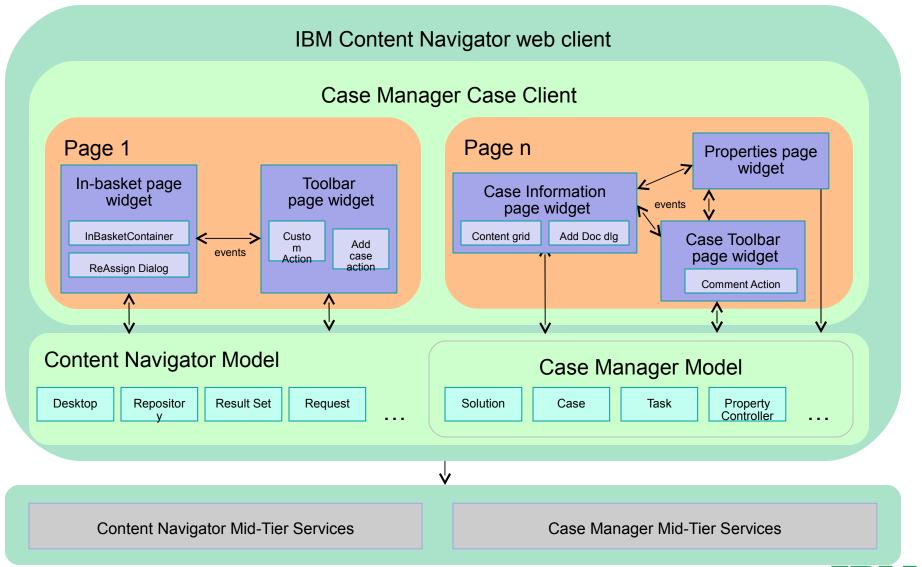


5.1.1 Case Client





5.2 Case Client







ICM JavaScript Toolkit (1/2)

•New toolkit with granular, browser-side classes that extend the ICN toolkit to make it easier to create custom widgets and actions

Package	Example classes	When would I use?	Example usage
icm.model Objects in the system and scratchpad data, no UI components here	Case, CaseComment, CaseRelationship, HistoryEvent, PropertyController, Solution, Task	When creating custom widgets and actions, to access ICM data, used in conjunction with ICN model. Access data when scripting events.	Get the case identifier for the case displayed on case detail page Get editable model object Update a case property
icm.action Out-of-the-box actions provided by ICM	AddCustomTask, SendLink, ShowLink, AddDocumentfromLocal	When building a custom action, if I wanted to wrap an existing ICM action or create a new custom action	Create a custom action for case document that publishes an event
icm.base Base classes used to creation custom page widgets and actions	BasePageWidget, BaseActionContext, Constants, WidgetAttributes, _EventStub	When creating a custom widget or action, use these base classes to provide infrastructure, fill in implementation with custom behavior	Create a custom search widget, create an action to display data from an external system. Includes model for events, settings





ICM JavaScript Toolkit (2/2)

•New toolkit with granular, browser-side classes that extend the ICN toolkit to make it easier to create custom widgets and actions

Package	Example classes	When would I use?	Example usage
icm.dialog ICM provided dialogs	AddCommentDialog, AddTaskDialog, DynamicTaskEditorDia log	When I want my custom widget or action to display a dialog	Display dialog to add a comment when user clicks on an icon in a content list
icm.pgwidget Classes that represent the page widgets	Attachment, CaseForm, CaseInfo, CaseList, CaseSearch, CaseToolbar, CaseVisualizer	When I want to create a custom widget that includes a page widget, or when I want to extend a page widget with additional behavior	Extend the in-basket widget to change font to red for overdue items Add new tab in Case Info
icm.util Utility classes	Coordination, SearchPayload, resource bundle	When you want to participate in processing a page, such as dispatching a work item or saving a case	Custom widget that saves data to an external system can hook into the dispatch of a work item
icm.widget.menu Toolbar and pop- up menu classes	ContextualMenu, Menu, MenuManager, Toolbar	When I want to include a context menu or toolbar in my custom widget, and use the Page Layout Designer to enable configuring the menus	Implement retrieval of data from an external system using a dialog that is configured as a toolbar action in my custom widget





Summary of benefits of new UI framework

- Web UI design tools integrated in Case Builder, resulting in fewer tools
 - Page Layout designer
 - Properties View Layout designer
- Web application development improvements
 - JavaScript Toolkit enables more extensive customization and reuse of the out-of-the-box components
 - Combines the power of the ICN toolkit with the ICM toolkit

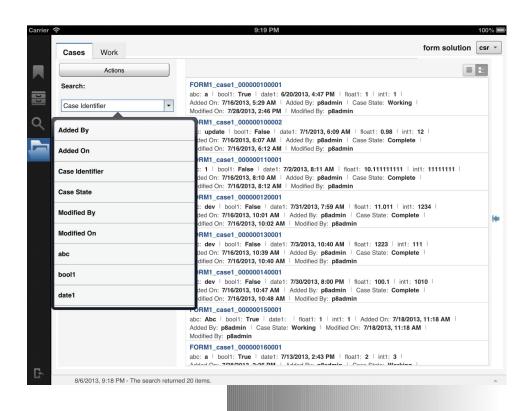
- Consistent end-user experience
- Simplified HA/DR configuration
 - No longer need to install Business Space
- Simplified security configuration
 - No need to define security on spaces and pages, security is defined on the solution objects
- Simplified page deployment
 - Does not require integration with a separate tool to move pages between environments, which can be error-prone



Mobile Case Client

Mobile client access

- Content Navigator Mobile app supported searching for cases in 5.1.1
- New release includes iPad app that provides access to more Case Manager features
- Solutions are defined in Case Builder, including page layouts
- Widgets are dynamically optimized for touch interface



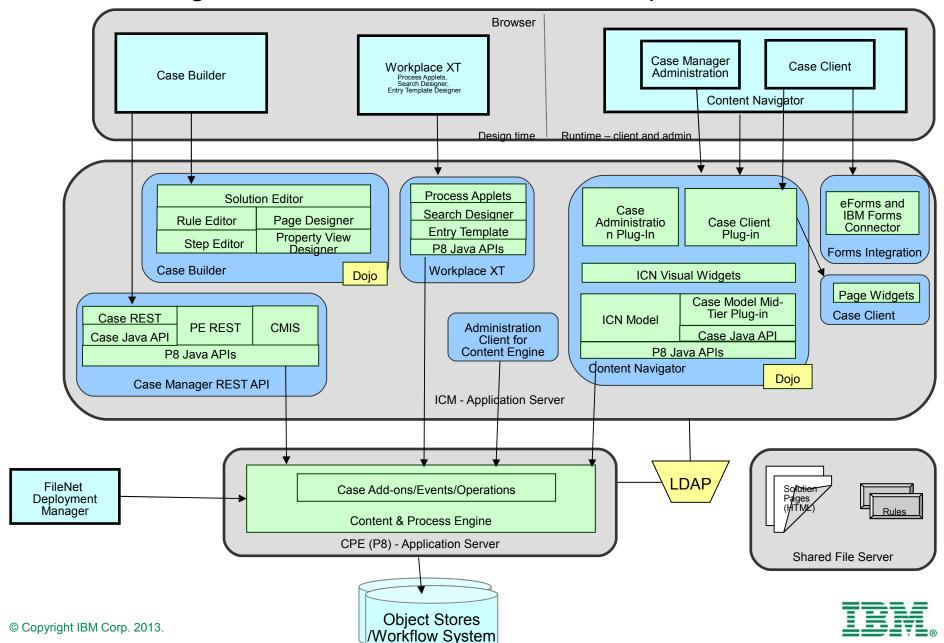


Architecture differences between ICM 5.1.1 and ICM 5.2

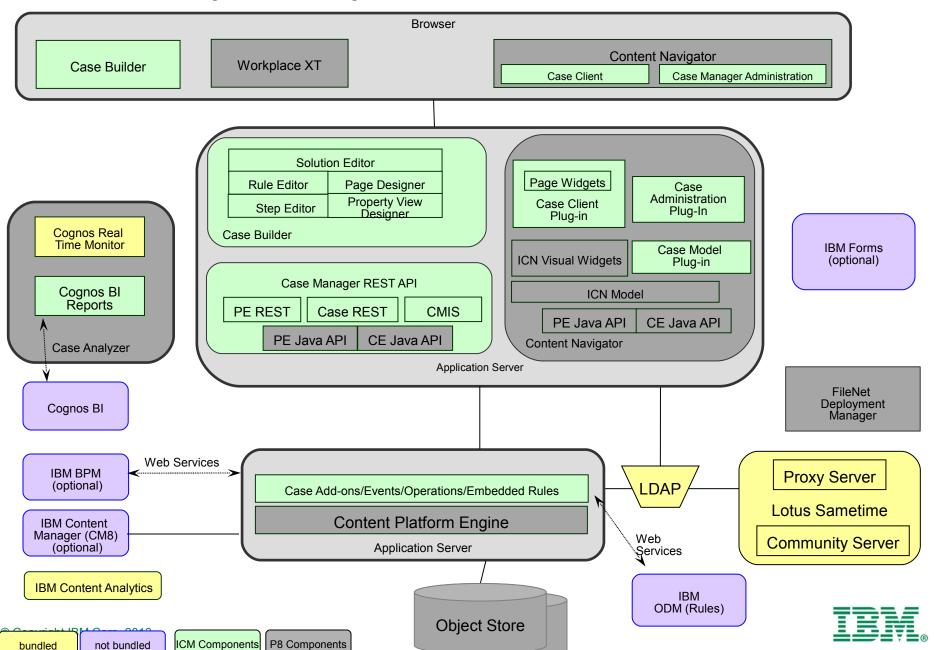
- Business Space is no longer required for ICM 5.2.
 - Eliminates many installation and configuration steps
- ICM 5.2 Case Client uses the Navigator framework.
 - Simplified installation and configuration for standard installations.
 - Only need a single ICM installation and single configuration profile for HA configuration.
- ICM 5.2 depends upon IBM Case Foundation 5.2
 - Content Process Engine (CPE) is deployed in one EAR file
 - Case Analyzer and Case Monitor services are part of the single deployment
- Workplace XT only required in the development environment.
 - ICM will facilitate the packaging and deployment in the development environment.
 - Workplace XT required in production for policy based forms
 - Content Navigator and WorkplaceXT should be configured in different application server profiles.
- Reduced dependence on external loosely coupled tools
 - Rules Engine and Forms.

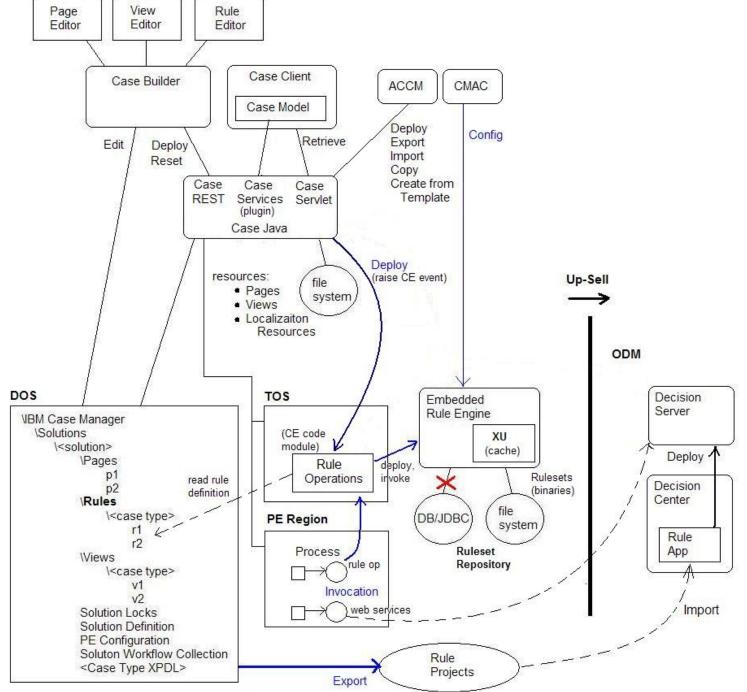


Case Manager 5.2 Architecture – Core Components



IBM Case Manager 5.2 - High-Level Architecture





Expanded platform support for ICM 5.2

- New versions of WebSphere Application Server
 - WAS 7, 8.0, 8.5
- Support for Oracle WebLogic Application Server 10, 12c
 - Includes core P8 components
 - Does not include optional components that don't support WebLogic
 - Sametime, IBM Forms, IBM Content Manager
- Latest browser versions on Windows XP, 7, 8
 - Internet Explorer 8, 9, 10
 - FireFox ESR release +
 - Chrome will be a post-qual
- Databases
 - DB2 9.7, 10.1
 - SQL 2008 R2, 2012
 - Oracle 11g R2



Expanded

Expanded platform support for ICM 5.2.1

- Servers
 - Windows Server 2012 R2
- Server Virtualization Note that ICM follows the general IBM support policy for virtualization, so while these specific tools have been tested, you can use any tools that meet the support policy criteria: http://www-01.ibm.com/software/support/virtualization_policy.html
 - VMware ESX Server (x86-64, x86-32) 5.1
 - HyperV Windows Server 2012 R2
- Desktop Case client running in supported browsers
 - Windows Desktop 8.1
- Web Browsers
 - Internet Explorer 11
- Java
 - Oracle JRE 8.0
- Databases
 - Oracle 12cR1 (12.1.0.1)
 - DB2 PureScale 10.1, 10.5



Expanded



Expanded platform support for ICM 5.2.1

- App Servers
 - WebLogic 12c (12.1.2)
- SSO
 - ISAM 7.0
 - SAML SAML 2.0 (WAS 8.0+ only)
 - CA SiteMinder with WebLogic 12
 - Kerberos/Active Directory (WAS 8.5, 8.5.5 & WL 12c) AD 2012 R2
- Get detailed reports on what is supported here:
 - http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity/index.html



Questions



