

Enabling Manulife Competence Centre for a new delivery model approach

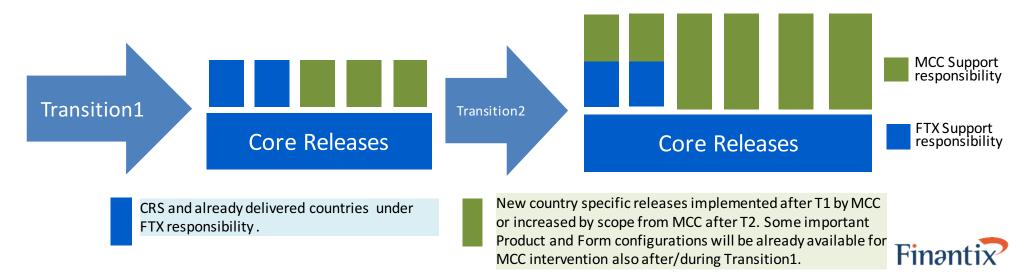


Approach overview

Finantix will work on a transition activity (2 phases) during which will consolidate all work done into a Core Release(s) (CRS) in order:

- to guarantee a stable CRS version before activating MCC: mainly cleansing/reviewing/updating the API/SDK made available with such CRS after the customizations implemented for ML, inject applicable Finantix products upgrades, finalize
- document how to use Finantix toolkit with the Manulife CRS in order to extend and/or reuse full or part
 of such Core Releases in new Manulife streams and projects
- define the procedure, rules, approaches for coordinating future development, customizations,
 extensions that will be made by the parties to a specific country implementation and into each build
- train MCC resources on all different layers of the Core Releases, on the Toolkit/API approach and on any other tool that MCC will be use for their tasks

Finantix after such 1st transition period will continue to maintain as part of the contract SLA such Core Releases and the countries/stream already delivered with such CRS and facilitate the 2nd transition so that also or in case there is a need to extend a Core Releases already delivered in a specific country by Finantix the MCC will be enabled to extend also such preexisting countries



Responsibility by layer before and after the transitions

Solution Dimension	Description and Examples	Current Resp.bility	Future Resp.bility	Enabling Technology / Required License
Build Procedures	Build Procedure	Finantix	MCC	Toolkit license After Transition1/2
Design, Configurations	 Apply: new form design and configuration (for already delivered and new countries) Quote: Product Parameters & Configuration (once delivered in the next CRS for ePOS, not for DBS) 	Finantix	MCC	 Digital Form Designer Q42016 Product Quotation Engine with Manulife extensions** Output Assembler (2017)
Manulife Extensions, Customizations and Integrations (after Transition1/2)	 User experience customizations or extensions New Business Logic Development like the already delivered Union Pay integration (HK) and Alpha Search (JP) 	NA	MCC	Toolkit/API/SDK license After Transition1/2
Finantix CRS customizations (after Transition1/2)	Future customizations to the reference CRS for that cannot be executed by MCC (for complexity or criticality reason or because a modification of the original component is necessary e.g. data model)	NA	Finantix	
Finantix Core Releases	Finantix Components plus extensions/customizations/developments implemented (reference version will be either PH or SG)	Finantix	Finantix	
Finantix Components	 Financial Needs Analysis Life Insurance Application Template Position: Insurance Contracts & Policies 	Finantix	Finantix	
Finantix Foundation platform	Platform ServerReplica Engine	Finantix	Finantix	

^(**) Already licensed (See contractual documentation "Schedule A Appendix C" document for licensed component list)



Manulife Solutions: dimensions and responsibility – AS IS

Configuration (Forms, PDFs)

Customizations made for ePOS and DBS by Finantix

Finantix Digital Foundation & Finantix Components

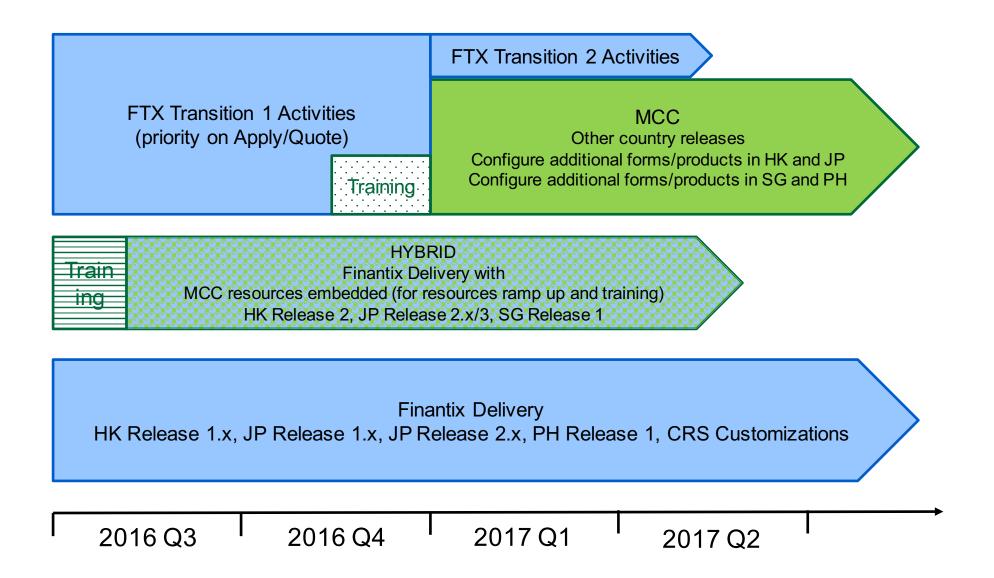


Dimensions and responsibility: before and after transitions

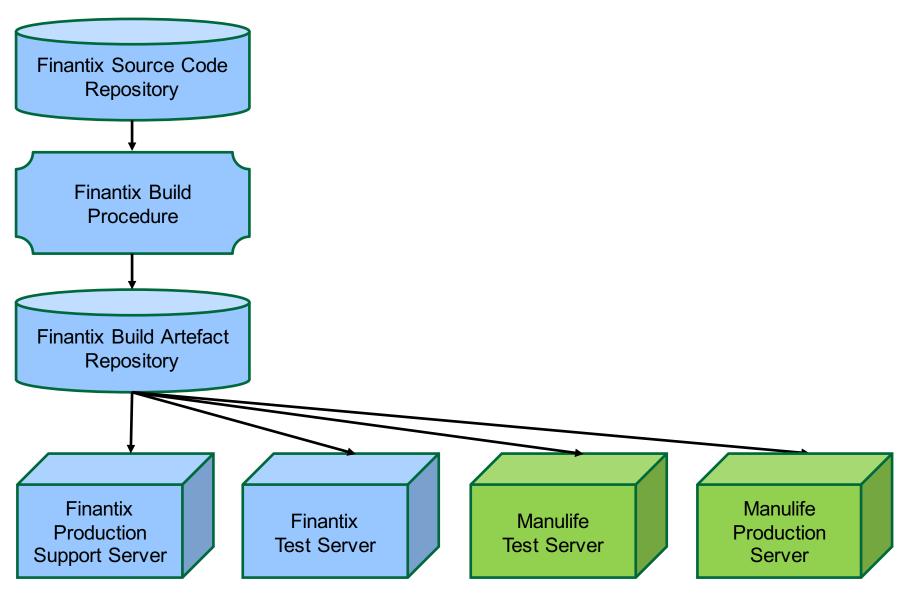
ePOS PH ePOS HK ePOS JP ePOS SG **FTX CRS** FTX CRS **FTX CRS Configuration** FTX CRS Configuration (Forms, PDFs, Products Configuration Configuration (Forms, PDFs, Products (Forms, PDFs) Quotes, Illustrations) (Forms, PDFs) Quotes, Illustrations) Configuration Configuration Configuration Configuration (Forms, PDFs, Products (Forms, PDFs, Products (New Forms, PDFs) (New Forms, PDFs) Quotes, Illustrations Quotes, Illustrations) MCC Extensions. MCC Extensions. MCC Extensions. MCC Extensions. **Customizations Integrations Customizations Integrations Customizations Integrations Customizations Integrations** (After Transition 1/2) (After Transition 1/2) (After Transition 1/2) (After Transition 1/2) Finantix CRS Finantix CRS Finantix CRS **FTX CRS** customizations (after customizations (after customizations (after customizations (after Transition1/2) Transition1/2) Transition1/2) Transition1/2) Finantix Core Releases Finantix Core Releases Finantix Core Releases Finantix Core Releases for ePOS and DBS for ePOS and DBS for ePOS and DBS for ePOS and DBS Finantix Digital Foundation & Finantix Components



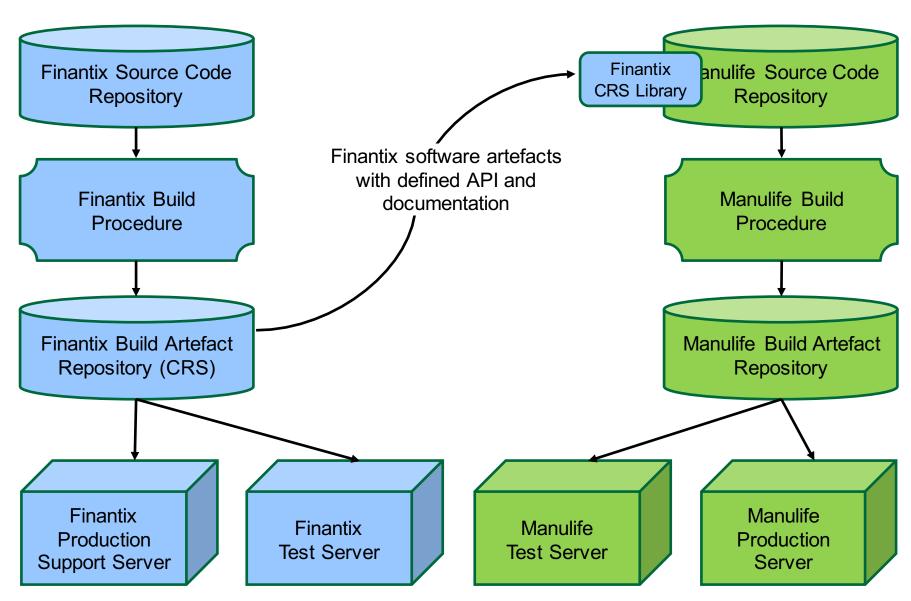
Enabling MCC – Suggested Timeline



Manulife Solutions: From Product to Solution – AS-IS

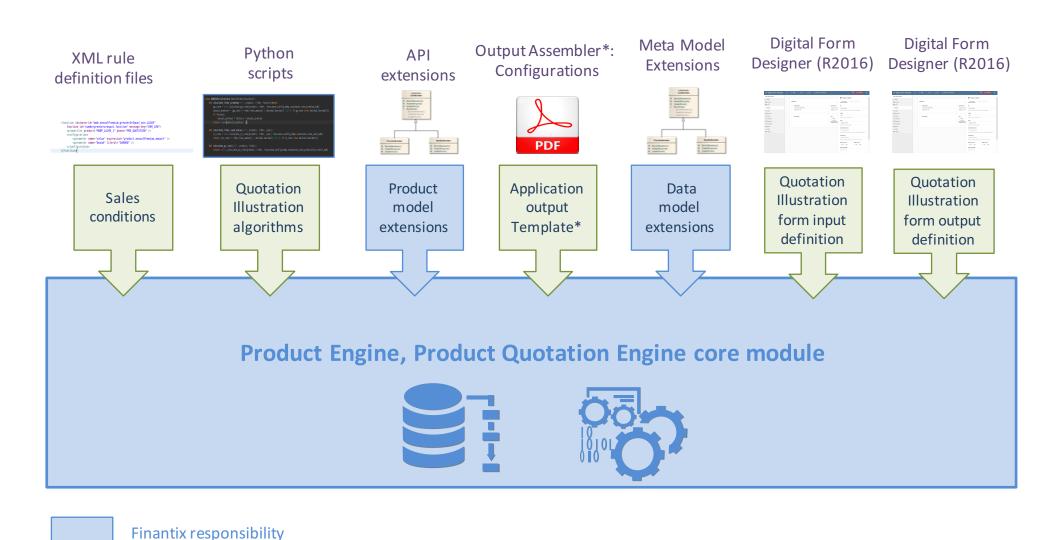


Manulife Solutions: From Product to Solution – After transition 1/2





Product and Quotation Engine: an extensible architecture





MCC responsibility

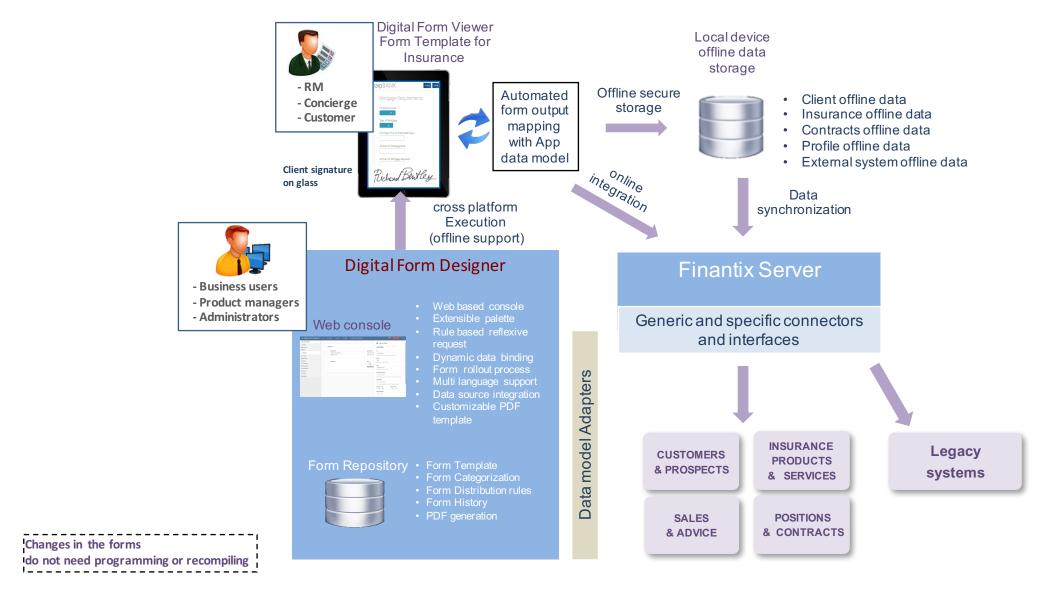
Product Engine and Quotation Engine: activities ownership examples

Ownership	Description
Finantix	 Product Engine core data model Product Engine product categories Product Engine technical extensible infrastructure support
Manulife Competence Center	 Business Rules definition Quotation algorithm Illustration algorithm Decision tables and rates data loading Input/output data definition Output PDF upload

Note: SG or Philippines will be the first country to activate the Finantix Product Quotation Engine. From such first activation also **already delivered** countries like Japan and HK will be able to use the PQE for the Quote area and potentially be managed by the MCC



Digital Form Suite: architectural view





Digital Form Designer: activities ownership examples

Ownership	Description
Finantix	 Digital Form Designer extensible Web tool Widget libraries Connectors Business entity data binding
Manulife Competence Center	 Form definition Pages Fields data binding Reflexive rules Field validations Theme customization

Note: SG or Philippines will be the first countries to activate the Digital Form Suite Architecture R2016 fully API enabled (a product upgrade from current release in use). Also countries like Japan and HK will be able to use R2016 version of the DFD for the design and configuration of additional forms required on top of the already delivered ones in the CRS.



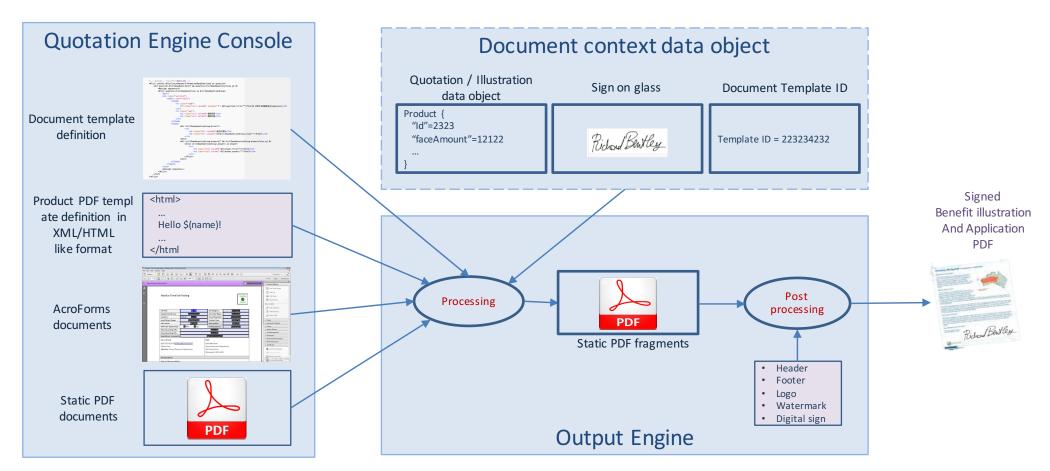
PDF Output Architecture: definition and generation flow overview

Support for different generation approaches:

- Dynamic PDF from HTML format file
- Static PDF as embedded PDF fragment
- PDF form filling (AcroForms)
- PDF form filling for static PDF



Quotation / Illustration / Apply Forms





Output Assembler: activities ownership examples

Ownership	Description
Finantix	Output Assembler extensible Web tool
Manulife Competence Center	 Document structure Index, header, footer, logo, watermark, barcode, digital signature etc Document building blocks Static PDF parts Dynamic XML parts (freeMarker and BFO) AcroForms parts Pictures Fonts Etc.

Note: after Transition1/2 and until availability of the Output Assembler module PDFs output is and will be managed with the following responsibilities:

For already delivered countries:

- Finantix: maintain and configure PDF output for products already delivered (or planned) by Finantix
- MCC: design and configure PDF output for products not yet delivred by Finantix in HK and JP

For new countries

- Finantix: design and configure PDF output for inital products to be delivered by Finantix in new countries
- MCC: design and configure PDF output for products to be delivred by MCC in new countries



Enabling MCC – Next Steps

- Agreement in Principle
 - Understand objectives of the delivery model change and agree basic principles
- Delivery Stream
 - Share current software architecture and delivery model
 - Formalise target software delivery model
 - Agree step-by-step plan to reach the target delivery model
- Contract Stream
 - Define contractual appendices for new delivery model
 - Licencing for Toolkit/APIs, for Digital Form Designer
 - Amend SLA and processes for support (CRS vs Manulife vs Hybrid)
 - · Agree other contractual amendments based on new delivery model
- MCC Enablement Stream
 - Identify MCC knowledge / skills gap areas
 - Deploy MCC teams within Finantix teams (Hybrid)
 - Complete FTX transition activity and complete training of MCC teams when they reach sufficient maturity