

A large, light grey arc curves across the middle of the slide. To the left, a portion of a wireframe globe is visible, showing latitude and longitude lines.

Idiom at Customs

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Slides authorised by the New Zealand Customs Service

The Domain



- **New Zealand Customs Service**

- The government agency with the job of protecting the community from potential risks arising from international trade and travel, while facilitating the legitimate movement of people and goods across the border.

- **Functions**

- intercepting contraband (such as illegal drugs)
- checking travellers and their baggage, cargo and mail
- assessing and collecting Customs duties, excise taxes and Goods and Services Tax (GST) on imports
- protecting New Zealand businesses against illegal trade
- enforcing import and export restrictions and prohibitions
- collecting accurate import and export data.

- **The Border Sector**

- Customs works closely with the other border agencies, the Ministry of Agriculture and Forestry Quarantine Service and the Immigration Service. Customs officers perform immigration procedures at the border on behalf of the Immigration Service.

- **Core System: CusMod**

Business Value Delivered

The Business Problem

- CusMod deals with a large number of interfaces to external agencies:
 - e.g. Immigration, MAF, Ministry of Justice, Inland Revenue, Ministry of Social Development etc.
- Each interface needed business rules owned and defined by the connecting organisation.
- CusMod was expected to manage interface and ETL rules and perform core transactions.
- As the number of interfaces grew, the interface options and priorities became increasingly complex.
- Existing business rules were encapsulated in code and difficult to change.
- The need to respond quickly to changes in legislation/MoUs.

How we solved it



- Middleware Technology was introduced to solve these issues and had the beneficial effect of extending the life of CusMod.
- The middleware solution includes the ability to configure, manage and deploy the business rules for functions such as:
 - Auditing access to Customs' systems.
 - Providing governance rules around access to Customs' systems.
 - Interfaces to Customs' systems.

Idiom Benefits



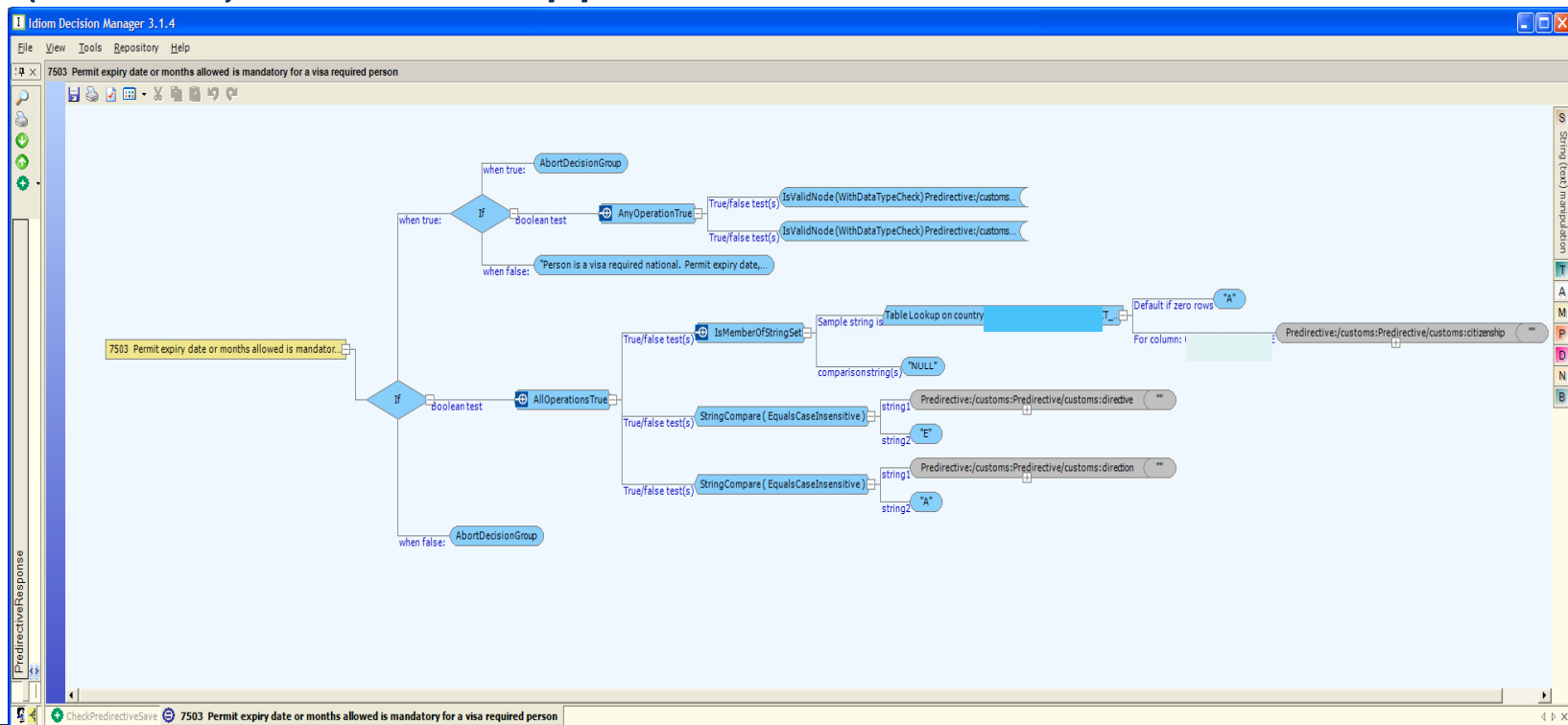
- **Business Rules Independence:**
 - Business Rules are stored in a central location.
 - Easily testable and verifiable against requirements.
 - Business Rules can be tested independently of the application code
 - Quick to change.
- **Middleware provides:**
 - Security of data and that only the appropriate information gets through to the right place.
 - Reduction in complexity of integrating with CusMod by reducing point-to-point integrations.
 - Integrity of CusMod by implementing other agencies' business logic outside of CusMod.

Business Value Delivered

Example

Instructions from the Immigration Service on processing Visas

- *If an OK to Enter/Exit directive (E) is received for an arrival (A) and the passenger Requires a Visa then either the Permit Expiry Date or Number of Months Allowed to Stay (or both) must be supplied.*



Business Value Delivered

Example

Instructions from the Immigration Service on processing Visas

- If permitExpiryDate is supplied AND re-calculation is not required (i.e. monthsAllowed is not supplied), permitExpiryDate must be in the future.

