Louisiana Department of Public Safety & Corrections and Mi-Case – Modernizing Sentence Calculations

Tuesday, June 20th

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23RD ANNUAL TECHNOLOGY SUMMIT RIDING THE WAVE of Technology JUNE 18-21 FT. MYERS

Presenters

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- Thomas Rumeau-Senior Business Systems Analyst at Mi-Case

Louisiana Dept. of Public Safety & Correction (DPS&C)

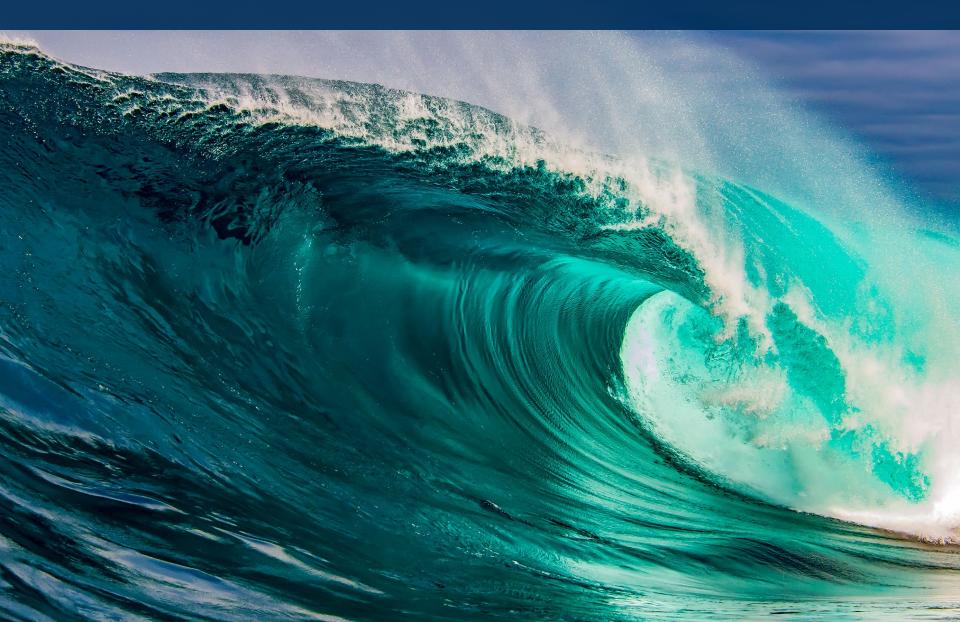
Project Approach

- <u>The Challenge</u>:
 - Louisiana designing new system, CIPRS
 - Migrate data from legacy system to CIPRS
 - Sentence Calculations is a complex and important module
 - Pressure from many stakeholders to deliver quickly and accurately
- <u>The Solution</u>:
 - Partner with Mi-Case, which has a proven track record of building software in the corrections industry, and an expertise in Sentence Calculations
 - Construct a single API to communicate between CIPRS and the Mi-Case Sentence Calculations system

Sentence Calculation Implementation Team <u>Cta</u> Approach ÷ -5 **(**•) Configuration Validation Initiation Analysis Deploy Support Project Governance (Project Management, Risks/Issues, Change Management, etc.) Create Base Sentencing Rules **Document Rules** • Warranty Cutover Planning and Execution Kick Off Analyze Sentence • Legislation Configure Rules Develop Training Transition to Planning Material Engine Maintenance Analyze Data Training • • and Structures in Establish **Develop Reports** Execute and • Operations Support Planning Existing OMS • Environments Support User Modify OMS Acceptance Design Rules and Testing Reports System and • Integration Testing **Iterative Cycles (Sprints) Integration Planning & Execution**

Data Migration Planning & Execution

Sentence Calculation Analysis Process



Cto Sentence Calculations Analysis

Project Approach:

The Challenge:

Sentence Calculations includes:

Complicated calculations (e.g., Adjusted Diminution of Sentence)

Complex rules (e.g., Consecutive Sentences)

>Interface with other functionalities (e.g., Forfeiture, Education)

oLA DPS&C via CIPRS:

Builds the front-end user interface

Provides essential data to Mi-Case

Displays results to end-users

○Mi-Case:

Designs sentence calculations engine

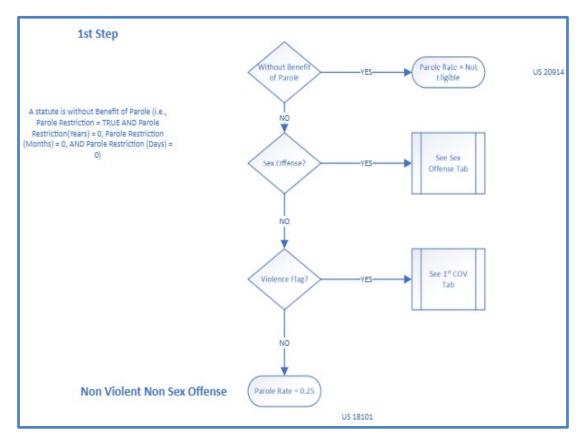
Provides calculations results to CIPRS

Sentence Calculation Breakdown by Module Section

Module Section	User Story	Development
Jail Credits	Complete	Complete
Full term Date	Complete	Complete
Original Diminution of Sentence	In Progress 75-100%	In Progress 75-100%
CTRP	Complete	Complete
Adj Diminution of Sentence	In Progress 75-100%	In Progress 75-100%
Parole Eligible Date	Complete	Complete
Escape	In Progress 75-100%	In Progress 75-100%
Parole Violation	Complete	Complete
Earned Compliance Credits (ECC)	Complete	Complete
Parole Rate	Complete	Complete
TWPED	Complete	Complete
Projected Release Date	Complete	In Progress 25-50%

- Break calculations into sections
- Create user stories for each section
- Start with the easier calculations and build to the more complex ones
 - Jail Credits
 - Full Term Date
 - Original Diminution of Sentence
 - Adjusted Diminution of Sentence
 - Impact of Credits and Forfeiture
 - Impact of Escape
- Track user story creation and development

Module Workflow: Calculate Parole Rate



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- Create workflow to understand complicated processes
- Benefits:
 - Quick visual for users and development team to follow the different use cases
 - Documentation available for quick understanding when problems arise

Simple Calculations Example: Jail Credits

Example 💌	CIPRS Data/Time Com	1 💌	2 💌	3 💌	
Arrested Date (1)	CIPRS Data	3/30/2021	3/30/2021	3/30/2021	
Bonded Date (1)	CIPRS Data				
Arrested Date (2)	CIPRS Data				
Bonded Date (2)	CIPRS Data				
Arrested Date (3)	CIPRS Data				
Bonded Date (3)	CIPRS Data				
Remanded Date	CIPRS Data				
Sentence Date	CIPRS Data	10/8/2021	10/8/2021	10/8/2021	
Sentence Start Date	CIPRS Data	10/8/2021	10/8/2021	10/8/2021	
Consecutive	CIPRS Data	No	Yes	Yes	
Jail Credits Still Allowed?	CIPRS Data	No	No	Yes	
Jail Credits	Time Computation Calculated	192	0	192	

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- Denote which data values come from CIPRS vs Mi-Case
- Calculate Jail Credits based on Arrest Date, Bond Date and Sentence Date
- Benefits of using excel:
 - LA DPS&C SME's to confirm results
 - Development team to understand the formulas

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More Advanced Calculations Example: Adjusted Diminution of Sentence

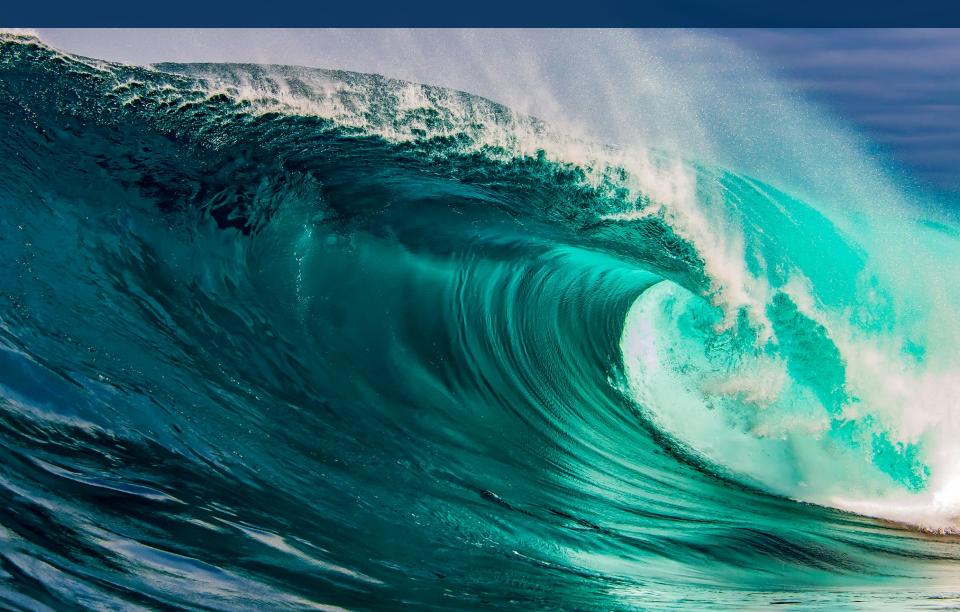
	í			
A/ 3 offenses. Offenses 2 and				
3 are consecutive to offense				
1.				
Field 🔽	CIPRS Data/Time Comp Calculate	1 ~	2 👻	3 👻
Docket Number	CIPRS Data	1	1	1
Sentence Start Date	CIPRS Data	6/15/2020	6/15/2020	6/15/2020
Full Term Balance (Days)	Time Comp Calculated	1461	1257	3084
Consecutive	CIPRS Data	No	Yes	Yes
Consecutive To	CIPRS Data	N/A	1	1
Jail Credits (Days)	Time Comp Calculated	136	136	136
Award Credits (Days)	CIPRS Data	10	10	10
Diminution Rate	CIPRS Data	0.85	0.35	0.75
Balance Owed (Days)	Time Comp Calculated	1315	1111	2938
Full Term Date	Time Comp Calculated	1/21/2024	2/5/2027	2/6/2032
Supervision Completion Date	Time Comp Calculated	11/29/2029	2/5/2027	2/6/2032
Must Serve Balance	Time Comp Calculated	1097	300	2170
Original Diminution of Sentence Date	Time Comp Calculated	6/17/2023	4/12/2024	5/25/2029
CTRP (Total)	Time Comp Calculated	205	30	30
Disaster Credit (Total)	Time Comp Calculated	0	0	0
Forfeiture Total	Time Comp Calculated	0	0	0
Restoration Total	Time Comp Calculated	0	0	0
Remaining Eligible Number of Days	Time Comp Calculated	423	841	799
Adjusted Must Serve Balance	Time Comp Calculated	892	270	2140
Adjusted Diminution of Sentence Date	Time Comp Calculated	11/24/2022	8/21/2023	10/2/2028
Supervision Balance Owed	Time Comp Calculated	423	0	799

CEA User Story Example: Jail Credits

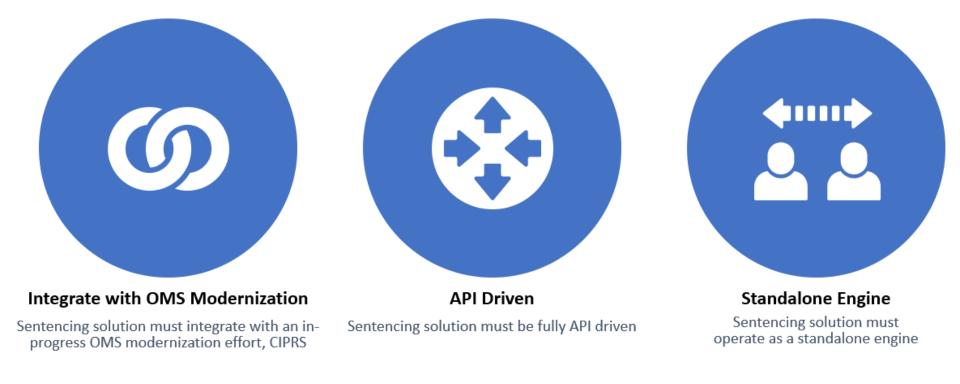
SER STORY 6626						
6626 Jail Credits C	Calculation - with on	ly 1 Arrest	Date and	Sentence	Date	
😑 Thomas Rumeau		🖓 4 comme	nts LAD	PSC Approved X	Mi-Case Approved X Ready for UAT X +	
State Closed		Area	Louisiana-T	imeComp\\Ja	il Credits	
Reason 🙆 Acceptance	e tests pass	Iteration	Louisiana-T	imeComp\Spri	nt 7	
Description						
start date.				was imprisoned	I before sentencing, when there is only 1 arrest date and the senten	ce
a. Jail Credits i. See 2. Mi-Case calculate a. If the sent i. See b. However, t sentence. i. See 3. Examples:	= Sentence Date - Arrest 1st Example in the table b is Jail Credits for each sen ence is consecutive, then J 2nd example in the table	Date below tence unless t all credits are below n. In that situa	the sentenc	e is consecutiv	anded Date and a Bond Date, then the calculation is as follows: re. on engine should then calculate Jall Credits for that consecutive	*
Example	CIPRS Data/Time Comp Calculated	i	2	3		
Arrested Date (1)	CIPRS Data	3/30/2021 3	3/30/2021	3/30/2021		
Bonded Date (1)	CIPRS Data					
Arrested Date (2)	CIPRS Data					
Bonded Date (2)	CIPRS Data					
Arrested Date (3)	CIPRS Data					
Bonded Date (3)	CIPRS Data					
Remanded Date	CIPRS Data					
Sentence Date	CIPRS Data	10/8/2021 1				
Sentence Start Date CIPRS Data 10/8/2021 10/8/2021 10/8/2021 *						
Click to add Prototypes						

- User Story represents a small unit of work.
- Includes:
 - What needs to be done?
 - Why is that needed?
 - o Acceptance Criteria
 - Examples
- Benefits:
 - More defined business rules using specific data value terms
 - Development Team and Business
 SME's focuses on small pieces of functionality
 - Allow development to be released more frequently

Configuration and Validation Process

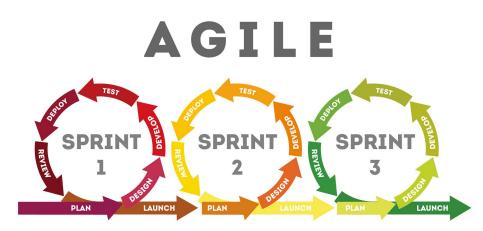






Configuration and Validation Approach

- Sentence Calculations API Building Steps:
 - \circ 2 Weeks Sprint
 - Analyze and prioritize user stories and bugs
 - $\circ~$ Design and develop API data points
 - Document and define API schema
 - Partner between LA OTS and Mi-Case developers
 - Perform API internal testing for different user stories

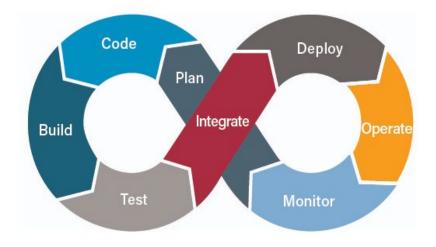


Configuration and Validation Approach

- Deploy updated Sentence Calculations API version
- Perform UAT testing to validate:

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- communication between CIPRS and Mi-CASE
- results for different release dates scenarios
- Provide feedback from UAT to update latest Sentence Calculations API version





TimeCom	outation JSON schema Request File, json
162	
162	},
164	"offenses": {
165	"type": "array",
165	
	"properties": {
167	"offenseMasterId": {
168	"type": "number-required",
169	"description": "Inmate's offense/sentence unique identifier from CIPRS DB"
170	},
171	"offenseNumber": {
172	"type": "integer",
173	"description": "Offense number "
174	},
175	"sentenceDate": {
176	"type": "date",
177	"description": "offense sentence date",
178	"format": "YYYY-MM-DD"
179),
180	"sentenceStartDate": {
181	"type": "date",
182	"description": "Sentence start date ",
183	"format": "YYYY-MM-DD"
184	
185	"statuteCode": {
186	"type": "string".
187	"description": "statute code "
188	},

- Document different data points
- Provide type, description, format, whether that's required or not
- Documentation used both by Mi-Case and LA OTS teams

CEA Louisiana DPC&C and MCase

The Solution



Fully API driven

Integrates with existing systems to provide a seamless experience



Configurable and scalable

Can be configured to meet the needs of any organization



Receives a structured JSON feed of Inmate Data

Provides up-to-date information on inmates



Lightweight and fast

Provides quick response times for users



Calculates all Release Dates and Credits

Automatically calculates release dates and credits for inmates



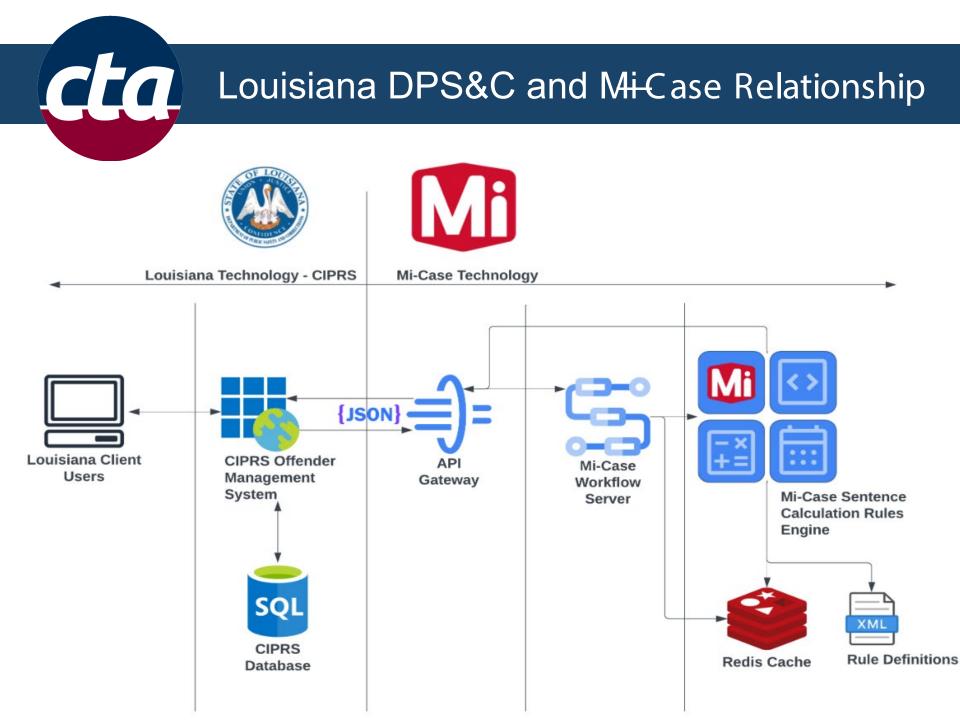
Fully automates all state statutes and departmental policy

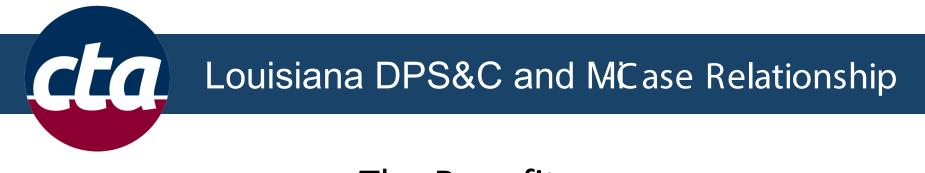
Ensures compliance with all relevant laws and regulations



Invisible to end-users

No user interface required for the system to work





The Benefits







Accelerated Implementation



Next Step





- Complete UAT
- Create additional stories for Bugs found in UAT
- Resolve Bugs
- Deploy UAT updates to sentence calculations version
- Sentence Calculations expected to be in production by end of 2023

DEMO





Thank You!