



MRTU Market Software Certification

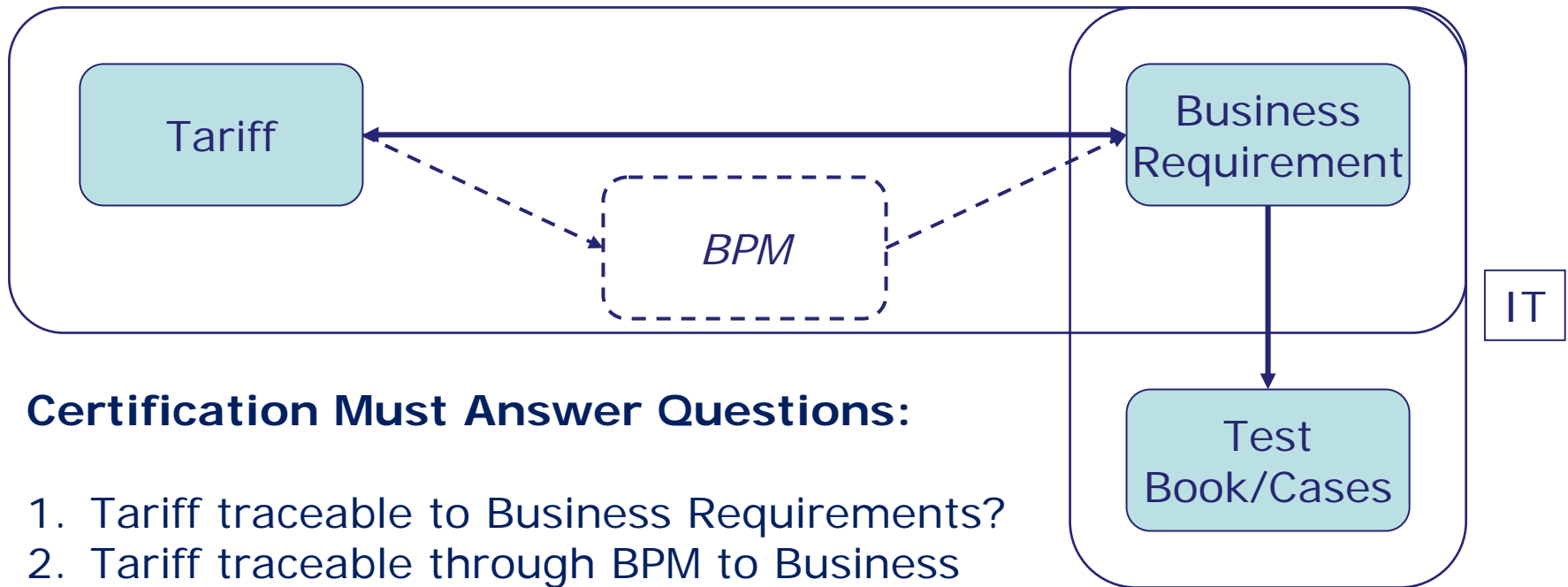
Board of Governors Update
May 21, 2008

Science Applications International Corporation (SAIC) has been contracted by the California Independent System Operator (CAISO) by way of Service Order No. 9 to CAISO Contract No. 05-00782, to assist CAISO in its effort to transition from the zonal market structure to the nodal market structure known as the Market Redesign and Technology Upgrade (MRTU). SAIC's task was to review portions of five software modules that were developed, built and tested by CAISO and representative software vendors pursuant to the MRTU Tariff, ER06-615-00, (Tariff) filed by CAISO with the Federal Energy Regulatory Commission (FERC) and conformed through November 15, 2007. Review of subsequent Tariff amendments or any other submissions, filed with FERC was not in the scope of Service Order No. 9.

MRTU Systems within SAIC purview were:

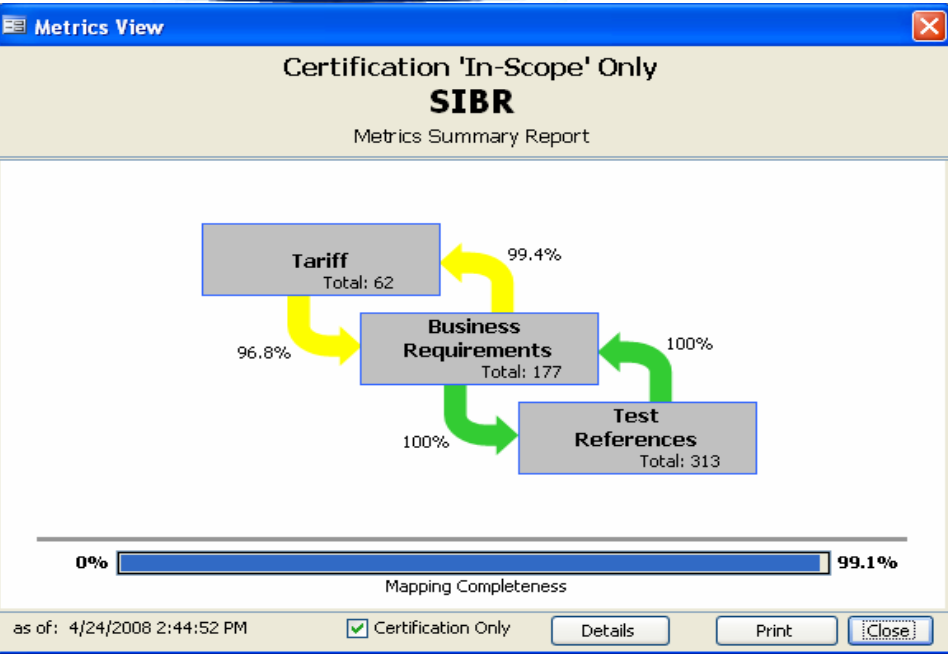
- Congestion Revenue Rights (CRR)
- Market Quality System (MQS)
- Scheduling Infrastructure and Business Rules (SIBR)
- Integrated Forward Market (IFM)
- Real Time Nodal (RTN)

Public Domain



Certification Must Answer Questions:

1. Tariff traceable to Business Requirements?
2. Tariff traceable through BPM to Business Requirements (If needed)?
3. Business Requirements traceable to Test Book/Test Cases with documented results?

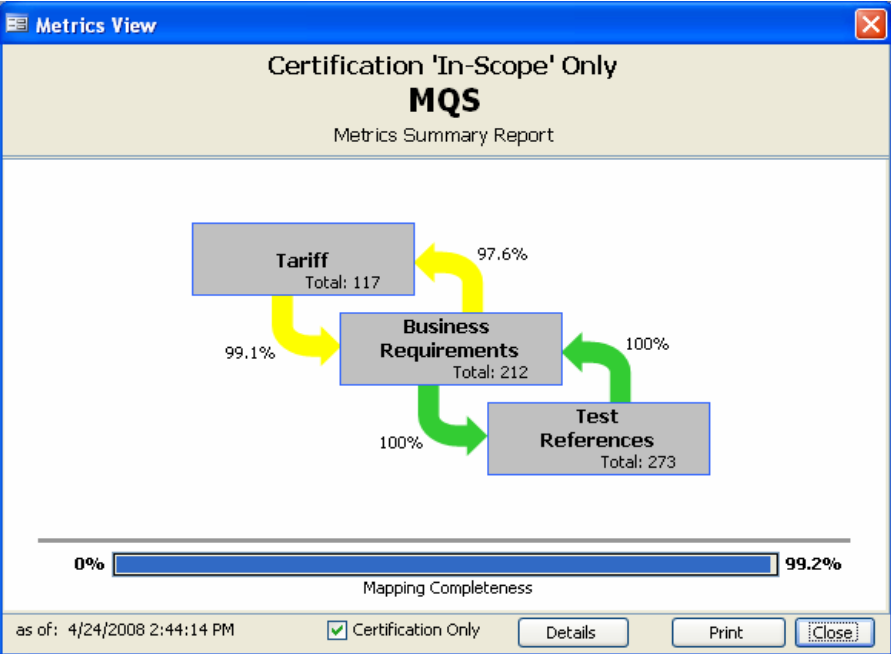


Metrics View
Certification 'In-Scope' Only
SIBR
 Metrics Detail Report

Tariff Citations:	Business Requirements:	Test References:	Test Scripts:
Total: 62	Total: 177	Total: 313	Total: 344
	Total Identified: 751	Total Identified: 2876 *	Total Identified: 983 *
Tariff Citations Mapping to Business Requirements:	Business Requirements Mapping to Tariff Citations:	Test References Mapping to Business Requirements:	Test Scripts Mapping to Test References:
Mapped: 60 Percentage Mapped: 96.8%	Mapped: 176 Percentage Mapped: 99.4%	Mapped: 313 Percentage Mapped: 100%	Mapped: 344 Percentage Mapped: 100%
Not Mapped: 2	Not Mapped: 1	Orphaned: 53	Orphaned: 32
Business Requirements Mapping to Test References:	Test References Mapping to Test Scripts:	Test Results:	
Mapped: 177 Percentage Mapped: 100%	Mapped: 277 Percentage Mapped: 88.5%	Passed: 310 99.0%	
Not Mapped: 0	Orphaned: 109	Failed: 3 1.0%	
		Undetermined: 0 0%	
		Mapping Completeness: 99.1%	

Note: The orphaned metric refers to items that could not be traced to determine mapping.
 * Could include regression testing

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Metrics Detail Report

Metric Category	Total	Total Identified	Percentage Mapped	Not Mapped	Orphaned
Tariff Citations:	117				
Business Requirements:	212	389	97.6%	5	
Test References:	273	485*	100%		60
Test Scripts:	88	161*	100%		3

Mapping From	Mapping To	Mapped	Percentage Mapped	Not Mapped	Orphaned
Tariff Citations	Business Requirements	116	99.1%	1	
Business Requirements	Mapping to Tariff Citations	207	97.6%	5	
Test References	Mapping to Business Requirements	273	100%		60
Test Scripts	Mapping to Test References	88	100%		3

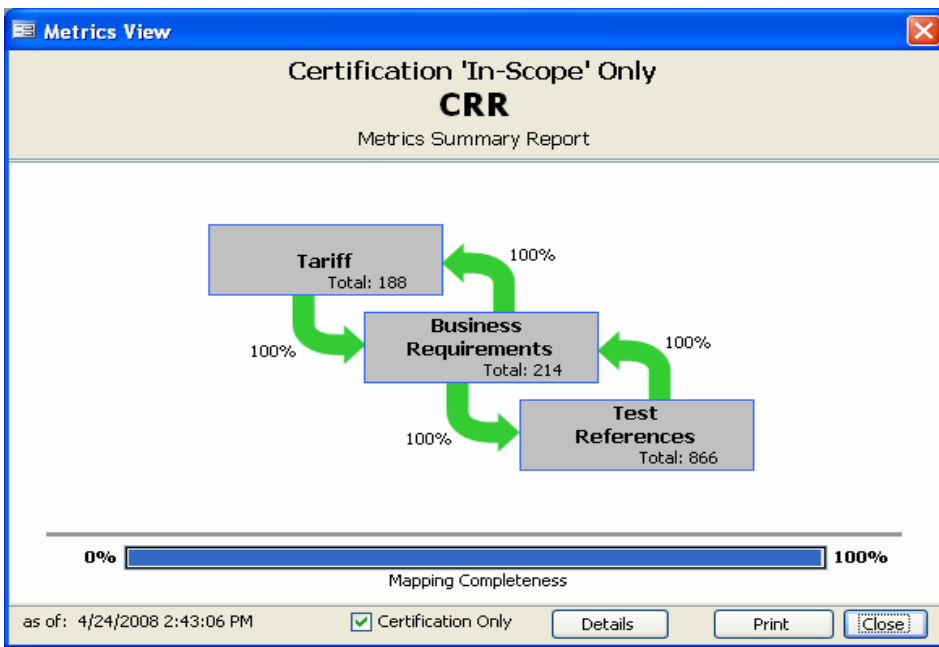
Mapping From	Mapping To	Mapped	Percentage Mapped	Not Mapped	Orphaned
Business Requirements	Mapping to Test References	212	100%	0	
Test References	Mapping to Test Scripts	72	26.4%		344

Test Results	Count	Percentage
Passed	273	100%
Failed	0	0%
Undetermined	0	0%

Mapping Completeness: 99.2%

Note: The orphaned metric refers to items that could not be traced to determine mapping.
* Could include regression testing

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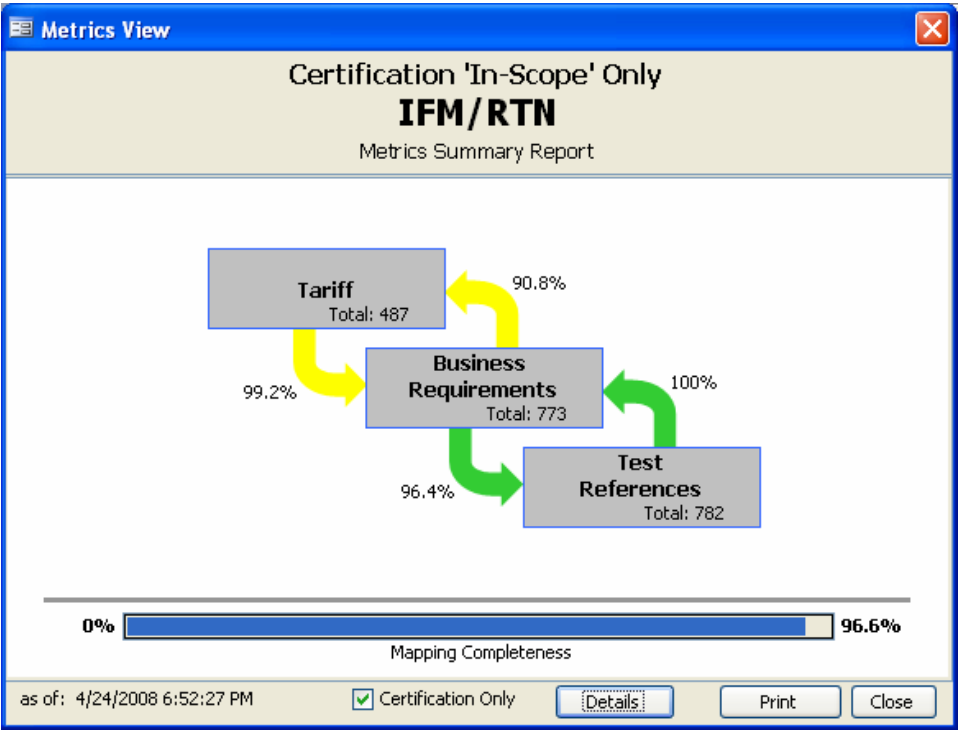
Certification 'In-Scope' Only CRR
Metrics Detail Report

Tariff Citations: Total: 188	Business Requirements: Total: 214 Total Identified: 683	Test References: Total: 866 Total Identified: 1626*	Test Scripts: Total: 0 Total Identified: 0*									
Tariff Citations Mapping to Business Requirements: Mapped: 188 Percentage Mapped: 100% Not Mapped: 0	Business Requirements Mapping to Tariff Citations: Mapped: 214 Percentage Mapped: 100% Not Mapped: 0	Test References Mapping to Business Requirements: Mapped: 866 Percentage Mapped: 100% Orphaned: 700	Test Scripts Mapping to Test References: Mapped: 0 Percentage Mapped: 0 Orphaned: 0									
Business Requirements Mapping to Test References: Mapped: 214 Percentage Mapped: 100% Not Mapped: 0		Test References Mapping to Test Scripts: Mapped: 0 Percentage Mapped: 0 Orphaned: 1615	Test Results: <table border="1"> <tr><td>Passed:</td><td>866</td><td>100%</td></tr> <tr><td>Failed:</td><td>0</td><td>0%</td></tr> <tr><td>Undetermined:</td><td>0</td><td>0%</td></tr> </table> Mapping Completeness: 100%	Passed:	866	100%	Failed:	0	0%	Undetermined:	0	0%
Passed:	866	100%										
Failed:	0	0%										
Undetermined:	0	0%										

Note: The orphaned metric refers to items that could not be traced to determine mapping.
* Could include regression testing

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IFM/RTN Module Status



Certification 'In-Scope' Only
IFM/RTN
Metrics Detail Report

Tariff Citations:	Business Requirements:	Test References:	Test Scripts:
Total: 487	Total: 773	Total: 782	Total: 0
	Total Identified: 7089	Total Identified: 1803 *	Total Identified: 0 *
Tariff Citations Mapping to Business Requirements:	Business Requirements Mapping to Tariff Citations:	Test References Mapping to Business Requirements:	Test Scripts Mapping to Test References:
Mapped: 483	Mapped: 702	Mapped: 782	Mapped: 0
Percentage Mapped: 99.2%	Percentage Mapped: 90.8%	Percentage Mapped: 100%	Percentage Mapped: 0
Not Mapped: 4	Not Mapped: 71	Orphaned: 281	Orphaned: 0
Business Requirements Mapping to Test References: Mapped: 745 Percentage Mapped: 96.4% Not Mapped: 28		Test References Mapping to Test Scripts: Mapped: 0 Percentage Mapped: 0 Orphaned: 1697	
Note: The orphaned metric refers to items that could not be traced to determine mapping. * Could include regression testing		Test Results: Passed: 696 89.0% Failed: 64 8.2% Undetermined: 22 2.8% Mapping Completeness: 96.6%	

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- Pursuant to Service Order No. 9 to CAISO Contract No. 05-00782 SAIC delivered executed certification letters to CAISO on April 25, 2008.
- There are numerous outstanding issues and actions that require CAISO resolution as of April 25th, 2008. The resolution of these by CAISO, per review and approval by SAIC, should bring the mapping rating to 100%.