



# INFORMATION & QUALITY SERVICES CENTER

## Quality Assurance Report Packet

As of January 15, 2016

## WORKBOOK CONTENTS

	<b>REPORT</b>	<b>LINK</b>
1	QA Report	<a href="#">QA Report</a>
2	Data Release Issues	<a href="#">REMPI Population</a>
3	New Solutions	<a href="#">New Solutions</a>
4	REMPI Population	<a href="#">REMPI Population</a>
5	REMPI John Doe Report	<a href="#">REMPI John Doe Report</a>
6	HWR Rates	<a href="#">HWR Rates</a>
7	Cohort Standard Deviation	<a href="#">Cohort Trending</a>



# INFORMATION & QUALITY SERVICES CENTER

## QUALITY ASSURANCE REPORT

As of January 15, 2016

Data Source:	IQSC_DataWarehouse
MyIQ Documents:	'Readmission Analysis'
Timeframe of tested data:	2015Q3 and Previous Periods

### CHANGE LOG

Release	Name	Log Num	Issue	Comment	Status
V2010.2.6.953	REMPI SYSTEM PATCH	501	RULE MOD/HOSP MRN	NOT REF MRN FOR ID	PROD

### TESTING SUMMARY

Testing	Process	Completion Date	Comments	Status
Verification	QUID Assignment	10/6/2015 - 1/13/2016	Pass	Complete
Validation	Claim Sequencing, Blinding, Fact Tables	1/13/2016	Pass	Complete
Validation	Inpatient Counts, Readmissions, Cohorts (PN, CHF, AMI), CMS Index Population, All Payor Index Populations, HWR, Outpatient Counts, ER Counts	1/13/2016	Pass	Complete
Validation	Value Adds, Groupers, Reference Checks/Variable Descriptors	1/13/2016	Pass	Complete
Validation	QV Source Updates	1/14/2016	Pass	Complete
Validation	Readmission Analysis	1/14/2016	Pass	Complete
Validation	Readmission Analysis	1/15/2016	Moved to Production	Complete

### REMPI DATABASE SUMMARY

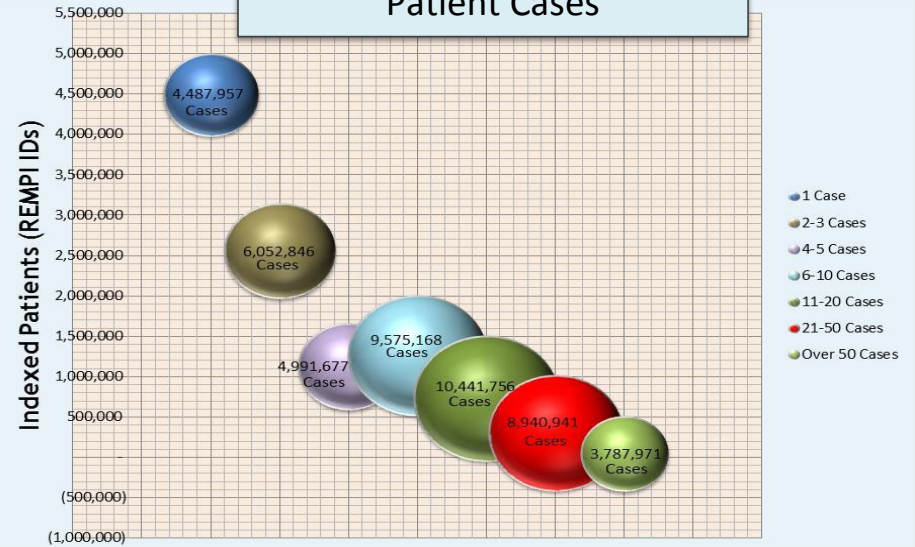
REMPI IDs	Cases	Cases/ID
10,462,693	47,682,592	4.56

As of January 15, 2016

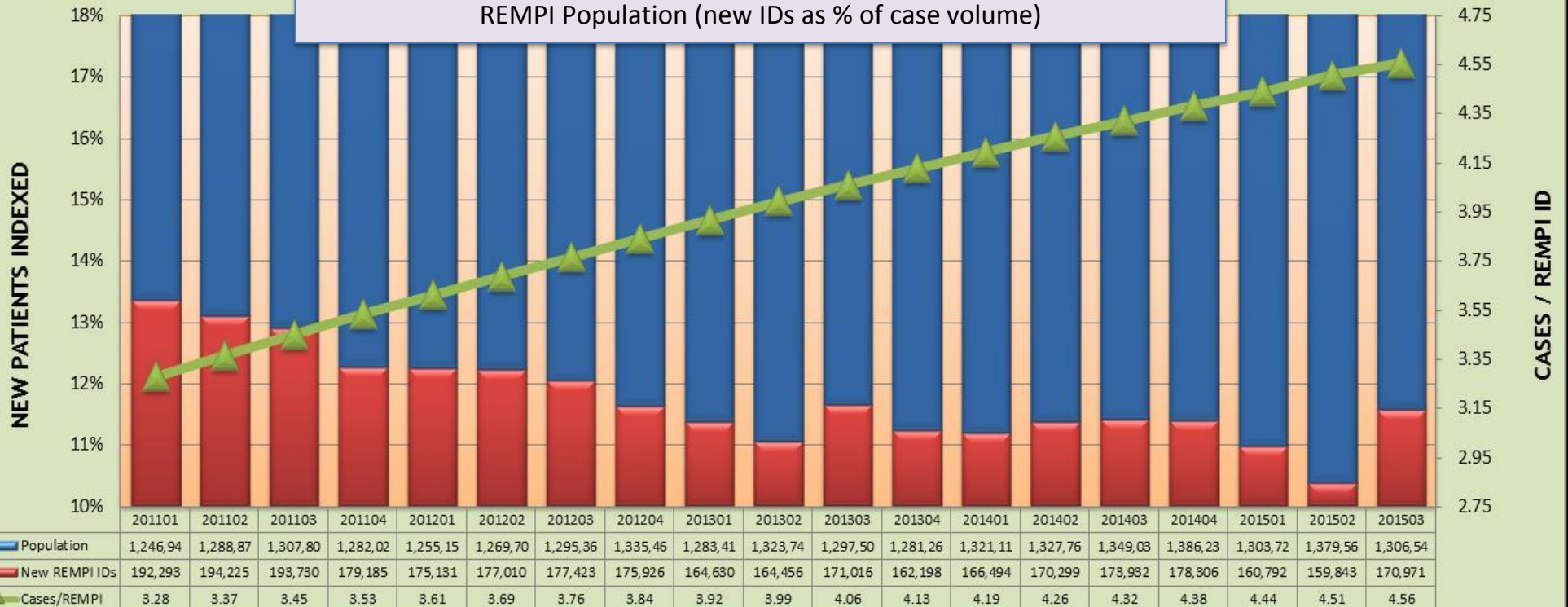
#### REMPI Case Load Reject %



#### Patient Cases



#### REMPI Population (new IDs as % of case volume)





# INFORMATION & QUALITY SERVICES CENTER

## Readmission Analysis Dashboard

### Value Add Log

As of January 15, 2016

Release	Field Name	Value Add	Solution	Definition	Notes
2014Q3	HWR	Hospital Wide Readmissions	Case Level Flag	See Insert	Version 3.0
2014Q3	SurgeryGynecology	Hospital Wide Readmissions	Case Level Flag	See Insert	Version 3.0
2014Q3	Cardiorespiratory	Hospital Wide Readmissions	Case Level Flag	See Insert	Version 3.0
2014Q3	Cardiovascular	Hospital Wide Readmissions	Case Level Flag	See Insert	Version 3.0
2014Q3	Neurology	Hospital Wide Readmissions	Case Level Flag	See Insert	Version 3.0
2014Q3	Medicine	Hospital Wide Readmissions	Case Level Flag	See Insert	Version 3.0
2012Q4	PtDiabetic	Patient Level Classification	Patient Level Flag	DiagnosisCodeDecimal BETWEEN '250.' AND '250.99'	positions 1-25
2012Q4	IS_PreAdmED	Identify current case that had previous outpatient emergency room case within 30 days	Case Level Flag	Based on REMPI case sequence and previous case revenue codes IN 45X and days between calculation 0-30	
2012Q4	IS_PreAdmOBS	Identify current case that had previous outpatient observation case within 30 days	Case Level Flag	Based on REMPI case sequence and previous case revenue codes IN 76X and days between calculation 0-30	
2012Q4	IS_PostDschrgED	Identify current case that has post discharge outpatient emergency room case within 30 days	Case Level Flag	Based on REMPI case sequence and post case revenue codes IN 45X and days between calculation 0-30	
2012Q4	IS_PostDschrgOBS	Identify current case that has post discharge outpatient observation case within 30 days	Case Level Flag	Based on REMPI case sequence and post case revenue codes IN 76X and days between calculation 0-30	
	IS_Cardiology	Revenue Code Classification	Case Level Flag	RevenueCode IN ('480','481', '482', '483', '489')	based on charge detail
2012Q4	IS_AmbSurg	Revenue Code Classification	Case Level Flag	RevenueCode IN ('490','499')	based on charge detail
2012Q4	IS_GastroInt	Revenue Code Classification	Case Level Flag	RevenueCode IN ('750','759')	based on charge detail
2012Q4	IS_Radiology	Revenue Code Classification	Case Level Flag	RevenueCode IN ('320','321','322','323','324','325','326','327','328','329','340','341','342','343','344','345','346','347','348','349','350','351','352','353','354','355','356','357','358','359','400','401','402','403','404','405','406','407','408','409','610','611','612','613','614','615','616','617','618','619')	based on charge detail
2012Q4	IS_Trauma	Diagnosis Classification	Case Level Flag	DiagnosisCodeDecimal BETWEEN '800' AND '959.9'	positions 1-25
2012Q4		Diagnosis Classification	Case Level Flag	DiagnosisCodeDecimal BETWEEN '250.' AND '250.99'	positions 1-25
	IS_COPD	Diagnosis Classification	Case Level Flag	DiagnosisCodeNumeric IN ('490','494','496','4660','4910','4911','4918','4919','4920','4928','4940','4941','49120','49121')	positions 1-25
2012Q4	THCIC_ID	Primary Hospital ID used by state	Identify Hospitals/Cases		
2012Q4	DeathFlag	Identify patients that expired on case or found to be subsequent case (use of REMPI ID) or outside of hospital (use of Death Master)	Case Level	MortalityStatus IN (1,2,3)	
2012Q4	NoDaysLive	Calculation of days between discharge and death	Case Level	Death date minus discharge date	

Release	Field Name	Value Add	Solution	Definition	Notes
	LiveDaysAD	Days alive grouper (based on NoDaysLive calculation)	Case Level	CASE WHEN NoDaysLive BETWEEN 1 AND 30 THEN '1-30 Days' WHEN NoDaysLive BETWEEN 31 AND 60 THEN '31-60 Days' WHEN NoDaysLive BETWEEN 61 AND 90 THEN '61-90 Days' WHEN NoDaysLive BETWEEN 91 AND 180 THEN '91-180 Days' WHEN NoDaysLive > 180 THEN 'Over 180 Days' ELSE NULL END AS LiveDaysAD	
2012Q4	MortalityStatus	1 = discharge status 20,40,41,42 2 = REMPI application based on 1 3 = Death Master search	Case Level	1 = discharge status 20,40,41,42 2 = REMPI application based on 1 3 = Death Master search	
2012Q4	Mortality	case discharge status 20,40,41,42	Case Level	CASE WHEN fc.DischargeStatus_Key IN (10, 12, 13, 14) THEN 1 ELSE 0 END AS Mortality	
2012Q4	ReadmitMort	case discharge status 20,40,41,42	Case Level	CASE WHEN Readmit DischargeStatus_Key IN (10, 12, 13, 14) THEN 1 ELSE 0 END AS ReadmitMort	
2012Q4	ReadmitMortalityStatus	1 = discharge status 20,40,41,42 2 = REMPI application based on 1 3 = Death Master search	Case Level	1 = readmit discharge status 20,40,41,42 2 = REMPI application based on 1 3 = Death Master search	
2012Q4	ReadmitDeathFlag	Identify patients that expired on case or found to be subsequent case (use of REMPI ID) or outside of hospital (use of Death Master)	Case Level	Readmit MortalityStatus IN (1,2,3)	
2012Q4	ReadmitNoDaysLive	Calculation of days between Readmit discharge and death	Case Level	Death date minus readmit discharge date	
2012Q4	ReadmitDays	Added More Groups	Case Level	CASE WHEN ReadmitDays < 0 THEN 'Admit Overlap' WHEN ReadmitDays BETWEEN 0 AND 7 THEN '0-7 Days' WHEN ReadmitDays BETWEEN 8 AND 30 THEN '8-30 Days' WHEN ReadmitDays BETWEEN 0 AND 30 THEN '0-30 Days' WHEN ReadmitDays BETWEEN 31 AND 60 THEN '31-60 Days' WHEN ReadmitDays BETWEEN 61 AND 90 THEN '61-90 Days' WHEN ReadmitDays BETWEEN 91 AND 180 THEN '91-180 Days' WHEN ReadmitDays > 180 THEN 'Over 180 Days' WHEN ReadmitDays BETWEEN 181 AND 365 THEN '181-365 Days' WHEN ReadmitDays BETWEEN 366 AND 1095 THEN '1-3 Years' WHEN ReadmitDays BETWEEN 1096 AND 2190 THEN '3-6 Years' WHEN ReadmitDays BETWEEN 2191 AND 3650 THEN '6-10 Years' WHEN ReadmitDays > 3650 THEN 'Over 10 Years' ELSE 'No Readmit' END AS ReadmitDayGroup	
2012Q4					
2012Q3		All Outpatient Cases Added			
2012Q2	NYU Fields: dxgroup, ne, epct, edcnpa, edcnnpa, injury, psych, alcohol, drug, unclassified, DiagClass	Grouping Outpatient ER Visits	Identify cases	Based on NYU Algorithm	

Release	Field Name	Value Add	Solution	Definition	Notes
2012Q2	CCS_Category	Principal Diagnosis Grouper	Identify cases	Based on Principal Diagnosis Code	
2012Q2	CCS_Label1	Principal Diagnosis SubGrouper	Identify cases	Based on Principal Diagnosis Code	
2012Q2	CCS_Label2	Principal Diagnosis SubGrouper	Identify cases	Based on Principal Diagnosis Code	
2012Q2	ReCCS_Category	Readmit Principal Diagnosis Grouper	Identify cases	Based on Principal Diagnosis Code	
2012Q2	ReCCS_Label1	Readmit Principal Diagnosis SubGrouper	Identify cases	Based on Principal Diagnosis Code	
2012Q2	ReCCS_Label2	Readmit Principal Diagnosis SubGrouper	Identify cases	Based on Principal Diagnosis Code	
2012Q2	ProcedureCount	Count of Procedure Codes per Case	Identify cases	Counting Procedure Codes in Positions 1-25	
2012Q2	DiagnosisCount	Count of Diagnosis Codes per Case	Identify cases	Counting Diagnosis Codes in Positions 1-25	



## REMPI LOAD REPORTS - JohnDoe % Of Case Submission

As of January 15, 2016

SubmissionPurpose = Inpatient DoeCount > 0							SubmissionPurpose = Outpatient DoeCount > 0						
JohnDoe% of Total Cases Submitted		DischargeQuarter					JohnDoe% of Total Cases Submitted		DischargeQuarter				
t_THCIC_Hospital_ID	HospitalShortName	201403	201404	201501	201502	201503	t_THCIC_Hospital_ID	HospitalShortName	201403	201404	201501	201502	201503
47000	Huguley	10.90%	9.71%	11.68%	11.47%	11.36%	47000	Huguley	2.43%	2.47%	2.57%	2.10%	2.03%
332000	Cook Hospital	5.49%	6.75%	6.51%	6.90%	5.63%	332000	Cook Hospital	1.26%	1.59%	1.91%	2.05%	1.77%
331000	BMC University	0.99%	0.64%	1.05%	0.86%	0.69%	970400	Cook Dodson Surg		0.18%	0.17%	0.08%	0.30%
814001	BRMC Plano		0.06%	0.07%			971500	Huguley Surg		0.21%	0.10%	0.12%	
766000	HCA Green Oaks			0.08%			254001	Wise Hosp				0.29%	
246000	HCA MC McKinney		0.03%			0.03%	448001	UTSW St. Paul				0.28%	0.00%
814000	HCA Las Colinas MC					0.07%	766000	HCA Green Oaks		0.05%			0.05%
502000	HCA MC Arlington		0.04%	0.02%			513000	BRMC Grapevine	0.01%	0.01%	0.01%	0.01%	0.01%
27000	BMC Garland					0.06%	502000	HCA MC Arlington	0.02%	0.00%		0.00%	0.01%
300000	BMC Irving					0.03%	142000	MHS Charlton MC	0.00%	0.00%	0.00%	0.00%	0.01%
847000	TMC Texoma MC			0.03%			246000	HCA MC McKinney	0.01%			0.01%	0.01%
142000	MHS Charlton MC	0.03%					336001	HCA Denton RegMC	0.01%		0.01%	0.01%	
664000	TH Plano				0.02%		431000	TH Dallas	0.01%		0.00%		0.01%
							971900	BMC McKinney				0.02%	
							143000	Childrens MC Dallas		0.01%		0.01%	0.00%
							859900	THP Rockwall			0.01%		0.01%
							972900	TH Harris Alliance	0.01%				
							300000	BMC Irving	0.00%	0.01%			
							943000	THP Flower Mound		0.01%			
							323000	TH Cleburne		0.01%			
							814000	HCA Las Colinas MC					0.01%
							422000	TH Arlington	0.00%	0.00%			
							409000	JPS Hosp		0.00%		0.00%	0.00%
							340000	HCA Med City Dallas	0.00%			0.00%	
							42000	BMC Carrollton	0.01%				
							394000	HCA MC Lewisville					0.01%
							790800	Children's Pavilion		0.00%			0.00%
							363000	BMC All Saints			0.01%		
							285000	BMC Waxahachie					0.01%



# Hospital Wide Readmission Rates

## Summary Reporting All Member Hospitals

IQSC Data Warehouse Reporting – Index Hospitalizations and Observed Readmission Rates by Specialty Cohort (July 2014 - June 2015 )

Values	Column Labels				
	201404	201501	201502	201503	Grand Total
Sum of HWRCMSIndex	31,176	33,109	31,959	29,829	126,073
Sum of HWRCMSNum	4,613	4,842	4,705	4,254	18,414
Observed Readmission Rate	14.80%	14.62%	14.72%	14.26%	14.61%

Values	Column Labels				
	201404	201501	201502	201503	Grand Total
Sum of SurgeryGynecologyCMS	8,138	8,079	8,376	8,136	32,729
Sum of SurgeryGynecologyCMS	890	847	920	839	3,496
Observed Readmission Rate	10.94%	10.48%	10.98%	10.31%	10.68%

Values	Column Labels				
	201404	201501	201502	201503	Grand Total
Sum of CardiorespiratoryCMSIn	4,841	6,197	5,320	4,054	20,412
Sum of CardiorespiratoryCMSN	855	1,108	945	678	3,586
Observed Readmission Rate	17.66%	17.88%	17.76%	16.72%	17.57%

Values	Column Labels				
	201404	201501	201502	201503	Grand Total
Sum of CardiovascularCMSInde:	2,798	2,864	2,772	2,669	11,103
Sum of CardiovascularCMSNum	411	422	404	386	1,623
Observed Readmission Rate	14.69%	14.73%	14.57%	14.46%	14.62%

Values	Column Labels				
	201404	201501	201502	201503	Grand Total
Sum of NeurologyCMSIndex	2,088	2,173	2,035	1,919	8,215
Sum of NeurologyCMSNum	279	297	258	237	1,071
Observed Readmission Rate	13.36%	13.67%	12.68%	12.35%	13.04%

Values	Column Labels				
	201404	201501	201502	201503	Grand Total
Sum of MedicineCMSIndex	13,311	13,796	13,456	13,051	53,614
Sum of MedicineCMSNum	2,178	2,168	2,178	2,114	8,638
Observed Readmission Rate	16.36%	15.71%	16.19%	16.20%	16.11%

Index Hospitalizations and Observed Readmission Rates by Specialty Cohort (Oct 2014 - Aug 2015 )

Specialty Cohort	Index	Observed
	Hospitalizations	Readmission Rate
Medicine	53,614	16%
Surgery/Gynecology	32,729	11%
Cardiorespiratory	20,412	18%
Cardiovascular	11,103	15%
Neurology	8,215	13%
HWR	126,073	15%





## COHORT TRENDING - HIGH LEVEL

As of January 15, 2016

**IQSC Reporting all qualified inpatient cases using CMS Methodology**

**2014 Measures Updates and Specifications Report  
Hospital-Level 30-Day Risk-Standardized Readmission Measures**

Acute Myocardial Infarction – Version 7.0

Heart Failure – Version 7.0

Pneumonia – Version 7.0

Cohort Diag PN	CMS Index	AOP Index	CMS Pop	AOP Pop	Cohort Diag CHF	CMS Index	AOP Index	CMS Pop	AOP Pop	Cohort Diag AMI	CMS Index	AOP Index	CMS Pop	AOP Pop
201404	190	217	1,385	1,840	201404	319	348	1,729	1,979	201404	105	129	804	1,412
201501	255	255	1,841	2,385	201501	339	386	1,959	2,315	201501	106	133	818	1,531
201502	220	226	1,523	1,927	201502	336	371	1,834	2,156	201502	111	132	791	1,497
201503	150	153	1,071	1,412	201503	261	342	1,627	1,919	201503	88	124	738	1,506
<b>Current</b>	150	153	1,071	1,412	<b>Current</b>	261	342	1,627	1,919	<b>Current</b>	88	124	738	1,506
<b>Mean</b>	204	213	1,455	1,891	<b>Mean</b>	314	362	1,787	2,092	<b>Mean</b>	103	130	788	1,487
<b>Variance</b>	1,990	1,850	101,992	159,125	<b>Variance</b>	1,314	418	20,252	32,174	<b>Variance</b>	100	16	1,222	2,674
<b>STDEV</b>	45	43	319	399	<b>STDEV</b>	36	20	142	179	<b>STDEV</b>	10	4	35	52
<b>STERROR</b>	22	22	160	199	<b>STERROR</b>	18	10	71	90	<b>STERROR</b>	5	2	17	26
<b>Margin of Error</b>	58	55	412	515	<b>Margin of Error</b>	47	26	184	231	<b>Margin of Error</b>	13	5	45	67
<b>CI</b>	99%	99%	99%	99%	<b>CI</b>	99%	99%	99%	99%	<b>CI</b>	99%	99%	99%	99%
<b>Lower Bound</b>	146	157	1,043	1,376	<b>Lower Bound</b>	267	335	1,604	1,861	<b>Lower Bound</b>	90	124	743	1,420
<b>Upper Bound</b>	261	268	1,867	2,406	<b>Upper Bound</b>	361	388	1,971	2,324	<b>Upper Bound</b>	115	135	833	1,553
<b>+/- LB</b>	4	(4)	28	36	<b>+/- LB</b>	(6)	7	23	58	<b>+/- LB</b>	(2)	(0)	(5)	86
<b>+/- UB</b>	111	115	796	994	<b>+/- UB</b>	100	46	344	405	<b>+/- UB</b>	27	11	95	47
<b>Status</b>	PASS	FAIL	PASS	PASS	<b>Status</b>	FAIL	PASS	PASS	PASS	<b>Status</b>	FAIL	FAIL	FAIL	PASS