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#### 1 OVERVIEW

Each Service Level has been created to identify key performance measures that will be used to evaluate Contractor's delivery of Services. The overriding goal in developing Service Levels is to monitor and measure performance of the County's most significant business requirements. The expectation is that new Service Levels will be added, deleted or changed to reflect changing or new business requirements. The continuous improvement in effective and reliable provision of Services for Service Levels on yearly basis is expected.

#### 2 HIGH LEVEL REQUIREMENTS

- 2.1. Contractor shall post all Service Levels reports to the Service Portal.
- 2.2. Contractor shall maintain a live and up-to-date dashboard of current, selected Service Levels on the Service Portal.
- 2.3. Contractor shall immediately respond to requests for Services from the offices of the Chief Administrative Office (CAO) and Board of Supervisors (BOS) by dispatching personnel onsite. Site visits will be coordinated through the County Technology Office representative.

#### 3 INCIDENT SERVICE LEVEL SEVERITIES

Severity	Description	Definition		
1	Critical	Incidents that cause a complete and immediate work stoppage affecting a Priority 1 Application affecting multiple users. Any single-user Incident involving a Priority 1 Application will be handled operationally as a Severity 1 but will be reported as a Severity 4. In addition, any Incident related to life, health or safety Sites, including but not limited to, the following:  • Polinsky Center (entire site data system) or Auto Attendant • Rosecrans Psych Hospital (entire site Data System) • Edgemoor Hospital (entire site data system)		

Severity	Description	Definition
	*	Incidents that cause a complete and immediate work stoppage affecting
		a Priority 2 Application affecting multiple users. In addition, any Service
		Request meeting the following criteria:
		All Data or Voice down at any County Site
		Auto Attendants or ACDs
		Video teleconferencing systems located at the Probation
		Department and Public Defender
	Urgent  Department and Public Defender  Internet access (entire County)  Intranet access (entire County)  File Services (more than one (1) user)  Print Services (more than one (1) user)  E-mail Services (more than one (1) user)  Security violation  Identity management system (more than one (1) user)  Any Interactive Voice System (IVS) Application  Toll-free number	
		Intranet access (entire County)
2	Urgent	• File Services (more than one (1) user)
		• Print Services (more than one (1) user)
		• E-mail Services (more than one (1) user)
		Security violation
		• Identity management system (more than one (1) user)
		Toll-free number
		Remote access Service (more than one (1) user)
		County badge reader system (entire system only)
		Incidents that cause a complete and immediate work stoppage affecting
		a Priority 3 Application affecting multiple users. In addition, any Service
		Request meeting the following criteria:
		Jail Blue Phones
3	Important	• Voice mail system (more than one (1) user)
3	Important	Audio systems
		All other video teleconferencing systems
		Alarm circuits
		SCADA monitoring circuits
		Any non-priority 1 or 2 multiple-user Incident
	т	An Incident that affects a single End-User's ability to perform his/her
4	Low	normal daily activities.

#### 3.1 Incident Service Level Reporting Exclusions

Tickets pertaining to the following shall not be included in the calculations for the Incident Service Levels:

- Status Tickets
- Internal Contractor Tickets
  - The exclusion of internal contractor tickets will not result in the exclusion of any End-User generated tickets with the same root cause.
- Duplicate tickets directly related to a master ticket

- Power Outage time will be excluded unless the Contractor is responsible for directly or indirectly causing the power outage.
- Equipment and circuits funded through the E-Rate Program used for internet access by public visitors at the County to the San Diego County Branch Libraries.

#### 4 OUTPUT DELIVERY SCHEDULES

The distribution of reports by Contractor for managed print Services (as set forth in the Data Center Services Framework) shall be in accordance with the following schedule:

<b>Location Description</b>	Trips / Day	Drop Points / Location	Delivery Days	Delivery Time(s) No Later Than
County Administration Center 1600 Pacific Coast Highway Mail Room 050	1	1	Monday – Friday	9:00 AM
County Operations Center 5560 Overland Dr Suite 180 & 5530 Overland Dr Suite 410	1	2	Monday - Friday	9:00 AM
San Diego County Jail 1173 Front St	1	1	Monday - Friday	9:00 AM
Downtown Courthouse Hall of Justice 220 West Broadway	1	1	Monday - Friday	7:30 AM
San Diego Superior Court-Kearny Mesa 8950 Clairemont Mesa Boulevard	1	1	Monday - Friday	7:30 AM
Vista Superior Court 325 South Melrose Dr	1	1	Monday - Friday	7:30 AM

#### 5 SERVICE LEVEL SUMMARIZATION AND WEIGHTING FACTORS

The Service Levels are summarized in the table below. Service Level weighting factors apply as indicated in the table below. The County will adjust Weighting Factors in accordance with Schedule 16.8.

Service Level Weighting Table				
Service Level ID	Framework	Service Level	Weighting	
	Cross Functional	Severity 1 (S1) Incidents		
1		1A – S1 Incidents Revolved in ≤ 4 hours	13%	
2		1B − S1 Incidents Revolved in ≤ 8 hours	9%	
3		1C – Average of 4% of total S1 Incidents with longest resolution times	3%	
	Cross Functional	Severity 2 (S2) Incidents		
4		2A – S2 Incidents Revolved in ≤ 6 hours	12%	
5		2B− S2 Incidents Revolved in ≤ 10 hours	8%	
6		2C – Average of 4% of total S2 Incidents with longest resolution times	3%	
	Cross Functional	Severity 3 (S3) Incidents		
7		3A – S3 Incidents Revolved in ≤ 8 hours	7%	
8		3B – S3 Incidents Revolved in ≤ 12 hours	3%	
9		3C – Average of 4% of total S3 Incidents with longest resolution times	1%	
	Cross Functional	Severity 4 (S4) Incidents		
10		4A – S4 Incidents Revolved in ≤ 10 hours	11%	
11		4B – S4 Incidents Revolved in ≤ 16 hours	5%	
12		4C – Average of 4% of total S3 Incidents with longest resolution times	2%	
13	Cross Functional	Add End-User Account	0%	

Service Level Weighting Table				
Service Level ID	Framework	Service Level	Weighting	
13-1	Cross Functional	Add End-User Account (Interim)		
		13-1a – 3 Business Days	20/	
		13-1b – 5 Business Days	3%	
		13-1c - Edgemoor NetSolutions application	n/a	
14	Cross Functional	Terminate End-User	3%	
15	Cross Functional	Budgetary Estimate Request	3%	
16	Cross Functional	Project Estimate Request	3%	
17	Cross Functional	Accuracy of Chargeback Billing	4%	
18	Cross Functional	Annual Disaster Recovery (DR) Test	0%	
19	Cross Functional	Application Recovery Post- Disaster	0%	
20	Cross Functional	Asset Tracking	0%	
21	Cross Functional	Root Cause Analysis	3%	
22	Cross Functional	Filling Vacant Key Personnel Positions	3%	
55	Cross Functional	Root Cause Analysis Corrective and Preventative Action Completion	6%	
23	Service Desk	Incident Resolution Confirmation Notice	3%	
24	Service Desk	Password Resets		
		24a – Password Resets within 30 minutes 24b – Password Resets within 60 minutes	3%	
25	Service Desk	Response Time		
		A – Speed-to-Answer Time in 75 seconds B – Speed-to-Answer Time in 90 seconds	3%	

Service Level Weighting Table				
Service Level ID	Framework	Service Level	Weighting	
		C – Call Abandonment Rate		
		D – Email Response Time		
		E – Voice Mail Response		
		Time		
26	Service Desk	Service Repair Scheduling	3%	
27	Service Desk	Customer Satisfaction	4%	
28	Service Desk	First Call Resolution	0%	
54	Service Desk	First Call Resolution – 2 <sup>nd</sup> Generation	3%	
29-1	End-User	Operating System (OS)/Microsoft Office Patches Involving Technical Issues and Security Vulnerabilities		
29-2	End-User	Operating System (OS) and Core Software Patching for Critical and Zero Day Vulnerabilities	3%	
29-3	End-User	Core Software Patching Involving Technical Issues and Security Vulnerabilities		
30	End-User	Software IMAR		
		30a – Software License Available	40/	
		30b – Software License Not Available	4%	
		30c – Move/Remove		
31	End-User	Hardware IMAR		
		31a – Hardware License Available	•	
		31b – Hardware License Not Available	3%	
		31c – Move/Remove		
32	End-User	OIC Additions and Removals	3%	
33	Network	Transaction Response Time – Internet/Intranet Availability		

Service Level Weighting Table				
Service Level ID	Framework	Service Level	Weighting	
		33a – Transaction Response Time – Intranet within 0.5 seconds  33b – Transaction Response Time – Intranet within 0.75 seconds	3%	
34	Network	Transaction Response Time  – Data Center		
		34a – Transaction Response Time – Data Center within 1 second  34b – Transaction Response Time – Data Center within 3 seconds	3%	
35	Network	Voice System Call Blocking	3%	
36	Network	Data Network Availability		
		36a – Average Availability  36b – Individual Site via Fiber	3%	
		36c – Individual Site via Copper	370	
37	Network	Internet Availability	3%	
38	Network	Voice Network Availability	3%	
39	Data Center	Output Delivery	3%	
40	Data Center	Daily Backup	3%	
41	Data Center	Quarterly Backup/Restore Test	0%	
42	Data Center	Data Restore		
		42a – Data 30 days old or less 42b – Data 31 days old or more	1%	
43	Data Center	Server Decommission	3%	
44	Data Center	[Reserved]	0%	
44-1	Data Center	Server Provisioning – Physical (Excludes Oracle)	0%	

Service Level Weighting Table				
Service Level ID	Framework	Service Level	Weighting	
44-2	Data Center	Server Provisioning – Virtual	2%	
44-3	Data Center	Server Provisioning – Oracle	2%	
45	Data Center	[Reserved]		
46	Data Center	Server Software Update		
		46-1 – Server Software Update - Operating system patching and updates for Windows and Linux servers  46-2 – Server Software Update - Operating system patching for Solaris and AIX servers	2%	
		46-3 – Server Software Update - Operating System Patching for Critical and Zero Day Vulnerabilities	1%	
		46-4 – Server Software Update - Middleware patching for Production PAIDs	1.5%	
		46-5 – Server Software Update - Application Patching for Production PAIDs	1.5%	
47	Data Center	Server Availability	3%	
48	Applications	Project Management Plan Rework	2%	
49	Applications	Service Request Schedule Performance	6%	
50	Applications	Variance to Application Budget	6%	
51	Applications	Application Availability		
	Applications	51-1 – Application Availability (P1)	1.7%	
	Applications	51-2 – Application Availability (P2)	1.7%	
	Applications	51-3 – Application Availability (P3)	1.6%	
52	Applications	Documentation Update Accuracy	3%	

Service Level Weighting Table				
Service Level ID	Framework	Service Level	Weighting	
53	Applications	Application Response Time	0%	
		53a – Application Response		
T		Time – Priority 1 Applications		
		53b – Application Response		
		Time – Priority 2 Applications		
		53c – Application Response		
		Time – Priority 3 Applications		

#### 6 CROSS FUNCTIONAL SERVICE LEVELS

#### 6.1 Severity 1 Incidents

Service Level	Severity 1 Incidents		
Service Level ID	1, 2, 3		
Definition	Time to restore service from time of Incident report to Service Desk  Note: Any S1 incident whose duration > 4 or 8 hours, and time exclusions were taken by Contractor, are subject to review/approval by the County.  Any exceptions taken shall be reported with the monthly SL reports and maintained by Contractor.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Percent of incidents	1A: D1 = S1 incidents resolved ≤ 4 hours 1B: D2 = S1 incidents	$D1 \ge 91\%$ of total S1 incidents for Month $D2 \ge 96\%$ of total S1	D1 ≥ 95.5% $D2 ≥ 98\%$
resolved for D1, D2 and D3	resolved $\leq 8$ hours <b>1C:</b> D3 = average of	incidents for Month $D3 \le 16 \text{ hours}$	Same formula but
designation	4% of the total S1 incidents with longest resolution times		modified to 2% of the total S1 incidents with longest resolution times
Formula	<ul> <li>1A: (Total S1 incidents per Month resolved ≤ 4 hours / total S1 incidents)</li> <li>1B: (Total S1 incidents per Month resolved ≤ 8 hours / total S1 incidents)</li> <li>1C: Average of 4% of S1 Incidents per Month with longest restore time</li> </ul>		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Ticket Duration: Service Desk receipt through service restoration		

# **6.2** Severity 2 Incidents

Service Level	Severity 2 Incidents		
Service Level ID	4, 5, 6		
Definition	Time to restore service from time of Incident report to Service Desk  Note: Any S2 incident whose duration > 6 or 10 hours, and time exclusions were taken by Contractor, are subject to review/approval by the County. Any exceptions taken shall be reported with the monthly SL reports and maintained by Contractor.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Percent of incidents resolved for D1, D2 and D3 designation	2A: D1 = S2 incidents resolved ≤ 6 hours  2B: D2 = S2 incidents resolved ≤ 10 hours  2C: D3 = average of 4% of the total S2 incidents with longest resolution times	$D1 \ge 91\%$ of total S2 incidents for Month $D2 \ge 96\%$ of total S2 incidents for Month $D3 \le 20$ hours	$D1 \ge 95.5\%$ $D2 \ge 98\%$ Same formula but modified to 2% of the total S2 incidents with longest resolution times
Formula	<ul> <li>2A: (Total S2 incidents per Month resolved ≤ 6 hours / total S2 incidents)</li> <li>2B: (Total S2 incidents per Month resolved ≤ 10 hours / total S2 incidents)</li> <li>2C: Average of 4% of S2 Incidents per Month with longest restore time</li> </ul>		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Ticket Duration: Service Desk receipt through service restoration		

# 6.3 Severity 3 Incidents

Service Level	Severity 3 Incidents		
Service Level ID	7, 8, 9		
<b>Definition</b>	Time to restore service from time of Incident report to Service Desk		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Service Measure	3A: D1 = S3 incidents	D1 $\geq$ 92% of total S3	D1 ≥ 96%
	resolved $\leq 8$ hours	incidents for Month	$D1 \ge 90\%$
	resolved \( \gamma \) nours	incidents for Month	
	<b>3B:</b> D2 = S3 incidents	D2 > 96% of total S3	D2 > 98%
Percent of	resolved $\leq 12$ hours	incidents for Month	
incidents	12 110 1112		
resolved for D1,	<b>3C:</b> D3 = average of 4%	$D3 \le 24 \text{ hours}$	Same formula but
D2 and D3	of the total S3 incidents		modified to 2% of
designation	with longest resolution		the total S3
	times		incidents with
			longest resolution
			times
	3A: (Total S3 incidents per	Month resolved ≤ 8 hours	/ Total S3 incidents)
Formula	<b>3B:</b> (Total S3 incidents per Month resolved ≤ 12 hours / Total S3		
Formula	incidents)		
	<b>3C:</b> Average of 4% of S3 I	ncidents per Month with lo	ongest restore time
Measurement	Monthly		
Interval	ivioliumy		
Reporting	Monthly		
Period	Worlding		
Measurement			
Tool/Source	Ticket Duration: Service Desk receipt through service restoration		
Data			

# **6.4** Severity 4 Incidents

Service Level	Severity 4 Incidents		
Service Level ID	10, 11, 12		
Definition	Time to restore service from time of Incident report to Service Desk		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
	<b>4A:</b> D1 = S4 incidents resolved ≤ 10 hours <b>4B:</b> D2 = S4 incidents	D1 $\geq$ 92% of Total S4 incidents for Month	D1 ≥ 96%
Percent of	resolved $\leq 16$ hours	$D2 \ge 96\%$ of Total S4 incidents for Month	D2 ≥ 98%
incidents resolved for D1, D2 and D3 designation	<b>4C:</b> D3 = average of 4% of the total S4 incidents with longest resolution times	D3 ≤ 32 hours	Same formula but modified to 2% of the total S4 incidents with longest resolution times
	6 AM to 6 PM Monday- Friday, excluding the County's holidays		
Formula	<ul> <li>4A: (Total S4 incidents per Month resolved ≤ 10 hours / total S4 incidents)</li> <li>4B: (Total S4 incidents per Month resolved ≤ 16 hours / total S4 incidents)</li> <li>4C: Average of 4% of S4 Incidents per Month with longest restore time</li> </ul>		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Ticket Duration: Service Desk receipt through service restoration		

# 6.5 Add/Modify End-User Account

Service Level	Time duration for creation of and/or changes to End-User account			
Compies Level ID	from time of Service Request			
Service Level ID		13		
Definition	Measures the time to add and/or m	odify new End-User ac		
Service Measure	Performance Target	SL Performance (%)	SL Earnback	
End-User account addition or modification Service Request completed	3 business days or by the date described in the Service Request or scheduled due date 90% 95%			
Formula	described in the Service Request 90% 95%			

	<ul> <li>access requests to be processed via manual provisioning and any incomplete items or items open to interpretation resolved</li> <li>Request approved and released by Automated CSRF Workflow for account creation and/or access requests to be processed via automated provisioning</li> <li>Request released by Peoplesoft for account creation and default access defined per the PeopleSoft business rules to be processed via automated provisioning</li> </ul>	
Measurement Interval	Requests for User IDs received from the same County department on the same day, in excess of twenty (20) or more, an Contractor team member will contact the requestor to determine the required delivery date for some or all of the User IDs requested, and/or solicit approval for an exception from the CIO or designee.  Monthly	
Reporting Period	Monthly	
Measurement Tool/Source Data	Contractor-provided	

# 6.6 Add/Modify End-User Account (Interim)

Service Level	Time duration for creation of and/or changes to End-User account from time of Service Request (SR)			
Service Level ID	13-1			
Definition	Measures the time to add and/or	modify new End-Us	ser account	
Service Measure	Performance Target  SL Performance   SL Earnback			
	13-1a. 3 business days or by the date described in the SR or scheduled due date	13-1a. 60%	13-1a. 80%	
End-User account addition or modification SR	13-1b. 5 business days or by the date described in the SR or scheduled due date	13-1b. 95%	13-1b. 97.5%	
completion	13-1c. Edgemoor NetSolutions application - 1 hour from the receipt of the SR from the receipt of the SR during business hours (8:00am - 5:00pm Mon-Fri)	N/A	N/A	

	13-1a. Total # of requests for account and/or access creation and/or change completed within 3 business days or by date described in the service request or by scheduled due date divided by number of requests >= 60%	
	<b>Algorithm:</b> $100 \text{ x } ((A - E) / (B - D)) \ge 60\% \text{ where}$	
Formula	A – # of requests for account and/or access creation and/or change completed within 3 business days or by date described in the service request or by scheduled due date B – Total # of requests for account and/or access creation and/or change D – # of requests for account and/or access creation and/or change for non-County employees (i.e. external agencies, Contractor staff, Contractor managed vendors) E – For non-County employees (i.e. external agencies, Contractor staff, Contractor managed vendors), # of requests for account and/or access creation and/or change completed within 3 business days or by date described in the service request or by scheduled due date.	
	13-1b. Total # of requests for account and/or access creation and/or change completed within 5 business days or by date described in the service request or by scheduled due date divided by number of requests >= 95%	
	<b>Algorithm:</b> $100 \text{ x } ((A - E) / (B - D)) \ge 95\% \text{ where}$	

	,		
	A – # of requests for account and/or access creation and/or change completed within 5 business days or by date described in the service request or by scheduled due date		
	B – Total # of requests for account and/or access creation and/or change		
	D – # of requests for account and/or access creation and/or change for non-County employees (i.e. external agencies, Contractor staff, Contractor managed vendors)		
	E – For non-County employees (i.e. external agencies, Contractor staff, Contractor managed vendors), # of requests for account and/or access creation and/or change completed within 5 business days or by date described in the service request or by scheduled due date.		
	For clarity, only 13-1a and 13-1b must be met for this Service Level. 13-1c will not be measured for SL purposes.		
	Clock starts when parent ticket and line items created by Service for account creation and/or access requests to be processed via manual provisioning and any incomplete items or items open to interpretation resolved.		
	Requests for User IDs received from the same County department on the same day, in excess of twenty (20) or more, Contractor team member will contact the requestor to determine the required delivery date for some or all of the User IDs requested, and/or solicit approval for an exception from the CIO or designee.		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Contractor-provided		

#### 6.7 Terminate End-User Account

	Time duration for termination of End-User account from time of			
Service Level	authorized request by County.	and oser decount from the	ne or	
Service Level ID	14			
Definition	Time duration from the County authorized request to the termination of End-User authorized access for the organization or Contractor.			
Service Measure	Performance Target SL Performance (%) SL Earnback			
End-User deletion Service Request completed	1 business day or by requested due date*	98%	99%	
Formula	1 9 9 9			

	a) For End-User account terminations, County business rules dictate the		
	Active Directory account be disabled and retained for 2 years prior to		
	deletion. For SL purposes, the disabling of the Active Directory		
	account is counted.		
	b) Request for access deletions that are not a termination are not included		
Measurement	Monthly		
Interval	Woltuny		
Reporting	Monthly		
Period	Monthly		
Measurement	The ticketing tool supplied by Centracter automatically records data and		
Tool/Source	The ticketing tool supplied by Contractor automatically records date and		
Data	time stamps for each activity within a process.		

# 6.8 Budgetary Estimate Request

Service Level	Time Duration to complete a Budgetary Estimate			
Service Level ID	15			
Definition	Length of time to provide budget estimate in response to Service Requests, including schedule and cost estimates or make contact with Requester to negotiate a Budgetary Estimate delivery date for Service Requests.			
Service Measure	Performance Target	SL Performance (%)	SL Earnback	
Request Completion Formula	Proposal for Development completed within 5 business days  Proposal for Development = 100 x (C/D)  (C) = Total Proposal for Development Completed within 5 business days  (D) = Total Proposal for Development requested			
Measurement Interval	Daily			
Reporting Period	Monthly			
Measurement Tool/Source Data	Proposal for Development completed within 5 business days or as negotiated with requestor			

# 6.9 Project Estimate Request

Service Level	Time Duration to complete a Project Estimate				
Service Level ID	16				
Definition	Length of time to provide a Project Estimate in response to a Project Estimate Service Request, including schedule and costs estimates or make contact with Requester to negotiate a Project Estimate delivery date for Service Requests. Time excludes any County incurred time needed to update/define requirements needed to complete the estimate.				
Service Measure	Performance Target SL Performance (%) SL Earnback				
Request Completion	10 business days or as negotiated	95%	97.5%		
Formula	Number of Project Estimate requests submitted within target/Total number of Project Estimate requests				
Measurement Interval	Daily				
Reporting Period	Monthly				
Measurement Tool/Source Data	Project Estimates completed within 10 business days or as negotiated with requestor				

# 6.10 Accuracy of Chargeback Billing

Service Level	Accuracy of billing: chargeback billing accuracy			
Service Level ID	17			
Definition	Measures the accuracy of c	hargeback billing		
Service Measure	Performance Target SL Performance (%) SL Earnback			
Accuracy	Valid charges and credits	98%	99%	
	(Total number of charges –	Number of disputed charg	ges resolved in County	
	favor – Low Org change re	quests not executed) / Tota	al number of charges	
Formula				
	A rate error impacting more than one chargeback item is counted as a single			
	error. Low Org requests not executed are counted as individual errors.			
Measurement	Monthly			
Interval				
Reporting	Monthly			
Period	Nonthiny			
	ITrack Chargeback Data and Change Requests			
Measurement	Disputed Charges are those submitted via ITrack as Delete			
Tool/Source	requests.			
Data	Low Org Change Requests are those submitted via ITrack Move			
	requests.			

# 6.11 Annual Disaster Recovery (DR) Test

Service Level	Annual test of DR plan			
Service Level ID	18			
Definition	Once per year activity to test DR prep	paredness		
Service Measure	Performance Target SL Performance (%) SL Ea			
Test Completion	Annual test of the DR plan completed and accepted by County in accordance with the criteria agreed upon by County and Contractor prior to execution of each annual test	100%	No earnback provision	
Formula	Number of instances within Performa during Measurement Period	nnce Target/Total number	of instances	
Measurement Period	Once			
Reporting Period	Annual			
Measurement Tool/Source Data	Contractor DR Test Report			

# **6.12 Application Recovery Post-Disaster**

Service Level	Recovery of Applications following disaster			
Service Level ID	19			
Definition	Recovery of applications after a	Recovery of applications after a disaster		
Service Measure	Performance Target	SL Performance (%)	SL Earnback	
Application Recovery	P1 Apps — 48 hours with ≤28 hours of data loss  P2 Apps — 72 hours with ≤28 hours of data loss	100%	No earnback provision	
Formula	Number of instances within Performance Target/total number of instances during Measurement Interval			
Measurement Interval	Designated recovery period following a disaster			
Reporting Period	Periodically throughout the recovery period			
Measurement Tool/Source Data	Contractor-provided			

# 6.13 Asset Tracking

Service Level	Management of Assets			
Service Level ID	20			
Definition	Effective management of Assets			
Service Measure	Performance Target SL Performance (%) SL Earnback			
Accurate tracking of Asset components	Accuracy of serial numbers, assigned Location/Person, Hardware/Software configuration	99.5%		
Formula	This SL is a comparison of 8 field DDMi (Datacenter Assets), scrip Network assets) in a given mont in Asset Manager 9 (AM9). Ass Workstation, Laptop, Windows Morkstation, Laptop Site Least Model  5. Location (CoSD Site Least Model  5. Location (CoSD Site Least Model  7. OS (EUS and Servers)  8. Owner Login ID (EUS)  The denominator will be the (numonth) * (number of fields), with Workstations, Laptops, and Windows (number of fields that matched be example Calculation:  15,000 Assets discovered in more failed.  (15000*8)-200 / (15000*8) = 99  Matching will be done based on discoverable field) will be scored disputes which are deemed valid had been submitted and not prop scored based on County issued I	ots (Storage assets) and Spech versus the data for those set types measured will be Tablet, Server, Storage, and ure this SL:  wel)  mber of assets auto-discover the location only gathered for dows Tablets. The numerate the tween Asset Manager and the thickness of the tween Asset Manager and the tweet Manager an	ectrum (AT&T assets as found all Desktop, d Network.  ered in a given or Desktops, ator will be the l autodiscovery)  200 fields that  In (not a Track location R or ITrack CR gin ID will be	

	deemed valid, after confirming an IMAR or ITrack CR had been submitted and not properly executed.
Measurement Interval	Monthly
Reporting Period	Monthly
Measurement Tool/Source Data	System provided by the Contractor to track and report out-of-compliance activities

# 6.14 Root Cause Analysis

Service Level	Root Cause Analysis conducted on critical incidents		
Service Level ID	21		
Definition	Assessment of Problems and their of	causes, with resolutions	
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Elapsed Time to produce RCA report	7 business days from S1 and S2 Incidents or other Incidents as requested by County starting at Incident Resolution	99%	99.5%
Formula	Number of instances within Performance Target/total number of instances during Measurement Interval  Note – completion criteria for publication of RCA shall be per the identified process in the Standards and Procedures manual		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Measured by the Ticket manageme	nt system	

# **6.15** Key Personnel Vacant Position

Service Level	Filling vacant Key Personnel positions			
Service Level ID	22			
Definition	Duration a Key Position is	Duration a Key Position is vacant beyond required timeframe to fill		
Service Measure	Performance Target	SL Performance (%)	SL Earnback	
Number of days position is vacant	2 business day after Key Position becomes vacant	100%	No earnback provision	
Formula	Vacant Key Positions filled within the target/all vacant Key Positions filled			
Measurement Interval	Daily			
Reporting Period	Monthly			
Measurement	Formal notification in writing of the individual filling the position. If the			
Tool/Source	individual is an interim, a target date for the permanent assignment shall			
Tool/Source Data				

#### 7 SERVICE DESK SERVICE LEVELS

#### 7.1 Incident Resolution Confirmation Notice

Service Level	Providing a Resolution Confirmation notice for all Incident tickets and Service Requests				
Service Level ID	23				
Definition	Total time elapsed to provide all resolution confirmation notices via automated email notification and/or telephone call to the End-User.  Service Desk may leave a message with a phone number to call back with any questions. For Incident Tickets, if a message is left, the Incident Ticket shall remain open in a pending closure status for 24 hours to allow the End-User the opportunity to confirm the incident is Resolved.				
Service Measure	Performance Target SL Performance (%) SL Earnback				
Schedule	Confirmation Notice within 30 minutes of 99% 99.5% Incident resolution				
Formula	Number of instances within Performance Target/Total number of instances during Measurement Interval				
Measurement Interval	Monthly				
Reporting Period	Monthly				
Measurement Tool/Source Data	Recording the confirmation notice received in the Ticket management system				

# 7.2 Password Reset Completion

Service Level	Length of time between password reset request and completion			
Service Level ID	24			
Definition	All requests			
Service Measure	<b>Performance Target</b>	Performance Target   SL Performance (%)   SL Earnback		
Schedule	• 30 minutes	• 95% within 30 minutes	• 97.5% within 30 minutes	
	• 60 minutes	• 99% within 60 minutes	• 99.5% within 60 minutes	
Formula	Number of instances within Performance Target/total number of instances during Measurement Interval			
Measurement Interval	Monthly			
Reporting Period	Monthly			
Measurement Tool/Source Data	Recording the request of	completion in the Ticket Mar	nagement System	

# 7.3 Response Time

	Response Time for:		
	Speed-to-answer		
Service Level	Call abandonment rate		
	Email Response Time		
	Voice Mail Response Time		
Service Level ID	25		
Definition	Response Time is the duration (measured in seconds) the End-User requires to connect with the Contractor's contact center representative. The Contractor will provide toll-free telephone lines in sufficient quantity to handle the call volume; ACD system(s) to record call date, time and duration information; and electronic interfaces to all systems for monitoring and reporting.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback

A. Speed-to- answer Time	• ≤ 75 seconds beginning 1 <sup>st</sup> full month of 1 <sup>st</sup> year of measurement in effect; 65 seconds for 2 <sup>nd</sup> year of measurement in effect; 55 seconds for 3 <sup>rd</sup> year of measurement in effect; 45 seconds for 4 <sup>th</sup> year + of measurement in effect	• 90%	• 95%
B. Speed-to- answer Time	• ≤ 90seconds	• 99%	• 99.5%
Call abandonment rate	<ul><li>≤5%</li></ul>	• 100%	• Same formula, but performance target modified to 2.5%
• Online Response Time	• ≤1 hour	• 95%	• 97.5%
• Voice Mail Response Time	• ≤30 minutes	• 95%	• 97.5%
	Number of instances within Performan	_	ded by Total number
Formula	of instances during Measurement Inter All Respond Time metrics must be me		ond Time Service
	Level. However, if Call Abandonment	•	
	answer Time is considered met for the	e current montl	n.
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Contractor-provided		

# 7.4 Service Repair Scheduling

Service Level	The amount of time necessary to schedule a Service Repair		
Service Level ID	26		
Definition	The elapsed time from the time the call is determined to be a desktop Incident Ticket until the End-User is contacted to schedule an onsite service appointment.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Time to complete scheduling	Within 90 minutes	98%	99%
Formula	Number of instances within Performance Target/Total number of instances during Measurement Interval		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Desktop Incident resolution	n Tickets only	

## 7.5 Customer Satisfaction

Service Level	Customer Satisfaction after Service performance			
Service Level ID	27			
Definition	Measures the performance of the Service provided to End-User			
Service Measure	Performance Target  SL Performance (%)  SL Earnback			
Positive Evaluation Percentage	Percentage of Positive Survey Survey Positive Survey Survey 3 and 4)	<ul> <li>Year 1 (May 2022 - April 2023) ≥ 90.0%</li> <li>Year 2 and onward (May 2023 – onward) ≥ 91.0%</li> </ul>	94%	
Formula	Percentage of Positive Survey Evaluations = Total number of survey evaluations returned scoring 3 and 4 divided by Total number of surveys returned.  Surveys will be rated on the following four (4) point scale: 1 – Highly Dissatisfied, 2 – Dissatisfied, 3 – Satisfied, 4 – Highly Satisfied.  Internal Contractor tickets will be excluded from the survey population.  Contractor shall calculate SL performance based on a statistically valid sample which is defined as a 95% confidence level with a 5% margin of error, .5% standard deviation, using a mutually agreed calculator found in the public domain: <a href="https://www.qualtrics.com/experience-management/research/determine-sample-size/">https://www.qualtrics.com/experience-management/research/determine-sample-size/</a> .  If there is insufficient number of surveys returned for a statistically valid sample for a given month, the low volume condition provision as per Section 2.10 – Low Volume Conditions, of Schedule 16.8 – Fee			
Measurement Interval	Monthly			
Reporting Period	Monthly			
Measurement Tool/Source Data	Survey data, ServiceNow			

### 7.6 First Call Resolution

Service Level	Resolution on first call		
Service Level ID	28		
Definition	First call resolution applies when an end-user request or issue is resolved prior to the conclusion of the call or chat with the Service Desk.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Percent completed	Call resolved	66%	75%
Formula	Number of tickets closed and resolved on first call or chat/total number of calls and chats during Measurement Interval.		
Measurement Interval	Daily		
Reporting Period	Monthly		
Measurement Tool/Source	Contractor provides a system with date and time stamp capabilities to track and report out-of-compliance activities.		
Data	-		

### 7.7 First Call Resolution – 2nd Generation

Service Level	Resolution on first call					
Service Level ID	54					
Definition	First call resolution applies when an end-user request or issue is resolved prior to the conclusion of the call or chat to include hot hand-offs to support tiers other than Service Desk.  On implementation of end user enablement projects (e.g. self-service or self-help projects), the parties shall mutually agree this SL shall receive 0% weighting for a duration of 6 months (or as mutually agreed); after the six months, the parties shall either validate the current performance target or mutually agree on a revised performance target.					
Service Measure	Performance Target	Performance Target SL Performance (%) SL Earnback				
Percent completed	Call resolved 70% No earnback provision					
Formula	Number of tickets closed at chat/total number of calls a	,	· ·			
Measurement Interval	Daily					
Reporting Period	Monthly					
Measurement	Contractor provides a system with date and time stamp capabilities to track					
Tool/Source	and report out-of-complian	ce activities. (Service Mar	nager, chat, SSPR			
Data	tool).					

### 8 END-USER SERVICE LEVELS

### 8.1 Critical Software Patches

Service Level	Operating System (OS) / Microsoft Office patches involving technical issues and security vulnerabilities		
Service Level ID	29-1		
Definition	Implementation of OS patches and updates for	desktop computing	g assets.
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Time to Implement	Measured from the approved mandatory installation deadline which must occur within the timeline respective to the update/patch highest severity rating, per the most recent approved Security Patch Management Procedure (XF.006.006).	93% all PCs	96.5% all PCs
	Example: If the highest severity rating is high, the patch must be deployed within 30 days of the patch release date. If the patch/update is made available on November 1 <sup>st</sup> , the approved mandatory installation must commence before December 1 <sup>st</sup> . If the approved mandatory installation deadline is November 15 <sup>th</sup> , the SLA must be met by December 15 <sup>th</sup> .		

Formula	Qty of workstations patched/updated over patch cycle period ÷ (Qty of workstations in the environment - Qty of Unknown workstations - Qty of Exempt workstations)  Unknown workstations are those that have not connected to the County network for an extended period (at least 90 days) and have not accepted the deployment.  Exempt workstations are those that have been approved and documented as exempt.  Acceptable Exceptions are limited to prevent disruption of critical business functions (i.e., TTC Property Tax collection periods November-December and March – April; employee benefit enrollment in October; ROV election blackout periods; fiscal year end processing; calendar year-end freeze).
Measurement Interval	Monthly based on Patch Cycle, not on the calendar month.
Reporting Period	Monthly based on Patch Cycle Initial Report - delivered 7 days prior to completion of the Patch Cycle period Final Report - delivered within 72 hours after Patch Cycle period
Measurement Tool/Source Data	Contractor-provided

	Operating System (OS) and Core Software patching for Critical and Zero Day		
Service Level	Vulnerabilities		
Service Level ID	29-2		
	Implementation of Core Software and OS patc	hes and updates spe	ecifically
Definition	identified as Critical or Zero Day Vulnerabiliti	es. Core Software i	s defined in
	Schedule 5, Report 64.		
		SL	SL
Service Measure	Performance Target	Performance	Earnback
		(%)	Zurnouen
Time to	Measured from the approved mandatory		
Implement	installation deadline which must occur within		
	15 calendar days as defined per the most		
	recent approved Security Patch Management	93% all PCs	96.5% all
	Procedure (XF.006.006).		PCs
	Example: If the severity rating is Critical, the		
	patch must be deployed within 15 days. If the		
	patch/update is made available on November		

	1 <sup>st</sup> , the approved mandatory installation must
	commence before November 15th. If the
	approved mandatory installation deadline is
	November 5 <sup>th</sup> , the SLA must be met by
	November 20 <sup>th</sup> .
Formula	Qty of workstations patched/updated over patch cycle period ÷ (Qty of workstations in the environment - Qty of Unknown workstations - Qty of Exempt workstations).  Unknown workstations (at least 90 days) are those that have not connected to the County network for an extended period and have not accepted the deployment.  Exempt workstations are those that have been approved and documented as exempt.  Acceptable Exceptions are limited to prevent disruption of critical business functions (i.e., TTC Property Tax collection periods November-December and March – April; employee benefit enrollment in October; ROV election blackout periods; fiscal year end processing; calendar year-end freeze).
Measurement	As needed based on Critical and Zero Day Vulnerabilities produced with vendor
Interval	remedy.
Reporting	Initial Report - delivered on day 9 from patch availability from the vendor
Period	Final Report - delivered within 72 hours after Patch Cycle period
Measurement Tool/Source Data	Contractor-provided

Service Level	Core Software patching involving technical issues and security vulnerabilities		
Service Level ID	29-3		
Definition	Implementation of Core Software patches for desktop computing assets. Core Software is defined in Schedule 5, Report 64.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Time to Implement	Measured from the approved mandatory installation deadline which must occur within the timeline respective to the update/patch highest severity rating, per the most recent approved Security Patch Management Procedure (XF.006.006).  Example: If the highest severity rating is high, the patch must be deployed within 30 days of	93% all PCs	96.5% all PCs

	the patch release date. If the patch/update is			
	made available on November 1st, the approved			
	mandatory installation must commence before			
	December 1 <sup>st</sup> . If the approved mandatory			
	installation deadline is November 15 <sup>th</sup> , the			
	SLA must be met by December 15 <sup>th</sup> .			
Formula	(Qty of workstations patched/updated over patch cycle period + Qty of in progress workstations patched/updated over patch cycle period) ÷ (Qty of workstations in the environment – Qty of Unknown workstations – Qty of Exempt workstations).  In Progress workstations are those that have received the deployment, but the user has not taken the necessary action for the install to complete.  Unknown workstations are those that have not connected to the County network for an extended period (at least 90 days) and have not accepted the deployment.  Exempt workstations are those that have been approved and documented as exempt.  Acceptable Exceptions are limited to prevent disruption of critical business functions (i.e., TTC Property Tax collection periods November-December and March – April; employee benefit enrollment in October; ROV election blackout			
7.5	periods; fiscal year end processing; calendar year-end freeze).			
Measurement Interval	Monthly based on Patch Cycle, not on the calendar month.			
	As Core Patches are Released.			
Reporting	Initial Report - delivered 7 days prior to completion of the Patch Cycle period			
Period	Final Report - delivered within 72 hours after Patch Cycle period			
Measurement				
Tool/Source	Contractor-provided			
Data				

### **8.2** Software IMAR

Service Level	Completion of Software IMAR			
Service Level ID	30			
Definition	Acceptable time required to Install, Move, Add or Remove Software at a desktop upon County authorization of Service Request (SR) for items covered in the Optional Items Catalogue (OIC).			
Service Measure	Performance Target  SL Performance   SL   Earnback			
	30a) 2 business days after an add SR is authorized by County or by requested date in SR or date scheduled by Contractor and accepted by requestor when software license is available at time of SR  30b) 7 business days after an add SR is	30a) 90% 30b) 90%	30a) 95% 30b) 95%	
Elapsed Time	authorized by County or by requested date in SR or date scheduled by Contractor (based on vendor delivery date) and accepted by requestor if software license is not available at the time of the SR			
	30c) 3 business days after a move or remove SR is authorized by County or by requested date in SR or date scheduled by Contractor and accepted by requestor	30c) 90%	30c) 95%	
	Business Day Monday — Friday 6 a.m. to 6 p.m., excluding the County Holidays			

	Number of instances within Performance Target/Total number of instances during Measurement Interval. User requests that specify IMAR execution will be measured from the point of the scheduled time.	
	30a) Number of requests completed within 2 business days or by requested date in SR or date scheduled by Contractor and accepted by requestor (when software license is available) divided by number of requests completed (when software license is available) >= 90%	
Formula	30b) Number of requests completed within 7 business days or by requested date in SR or date scheduled by Contractor and accepted by requestor (when software license is not available) divided by number of requests completed (when software license is not available) >= 90%	
	30c) Number of software move/remove requests completed within 3 business days or by requested date in SR or date scheduled by Contractor and accepted by requestor divided by number of software move/remove requests completed >= 90%	
	For clarity 30a, 30b, and 30c must be met for this Service Level.	
	Clock will be suspended if County approval is required.	
Measurement Interval	Monthly	
Reporting Period	Monthly	
Measurement Tool/Source Data	Contractor-provided	

### **8.3** Hardware IMAR

Service Level	Completion of Hardware IMAR				
Service Level ID	31				
Definition	Acceptable time required to Install, Move, Add or Remove Hardware upon County authorization of Service Request (SR). This applies to End User Resource Unit hardware such as desktop computing devices, network printers, and telephones.				
Service Measure	Performance Target  SL Performance   SL   Earnback				
Elapsed Time	31a) 3 business days after an add or install SR is authorized by County or by requested date in SR or date scheduled by Contractor and accepted by requestor when hardware is available at time of SR  31b) 7 business days after an add or install SR is authorized by County or by requested date in SR or date scheduled by Contractor (based on vendor delivery date) and accepted by requestor if hardware is not available at the time of the SR  31c) 3 business days after a move or remove SR is authorized by County or by requested date in SR or date scheduled by Contractor and accepted by requestor	31a) 90% 31b) 90% 31c) 90%	31a) 95% 31b) 95% 31c) 95%		
	Business Day Monday — Friday 6 a.m. to 6 p.m., excluding the County Holidays				

Formula	Number of instances within Performance Target/Total Number of instances during Measurement Interval. Service Requests that specify IMAR execution will be measured from the point of the scheduled time.  31a) Number of requests completed within 3 business days or by requested date in SR or date scheduled by Contractor and accepted by requestor (when hardware is available) divided by number of requests completed (when hardware is available) >= 90%  31b) Number of requests completed within 7 business days or by requested date in SR or date scheduled by Contractor and accepted by requestor
	(when hardware is not available) divided by number of requests completed (when hardware is not available) >= 90%
	31c) Number of hardware move/remove requests completed within 3 business days or by requested date in SR or date scheduled by Contractor and accepted by requestor divided by number of hardware move/remove requests completed >= 90%
	For clarity, 31a, 31b, and 31c must be met for this Service Level.
	Clock may only be suspended if County approval is required.
Measurement Interval	Monthly
Reporting Period	Monthly
Measurement Tool/Source Data	Contractor-provided

# 8.4 OIC Additions, Updates and Removals

	Completion of addition, up	date, or removal request pe	ertaining to Optional		
Service Level	Items Catalog (OIC)				
Service Level ID	32				
	The elapsed time between (	The elapsed time between Catalog Review Board (CRB) approval of			
Definition	Service Request (SR) to add	d, remove or update item to	o or from the OIC and		
Deminion	completion of the SR with	completion defined as whe	n OIC is updated with		
	addition, removal, or update	addition, removal, or update of item.			
Service Measure	Performance Target	Performance Target SL Performance (%) SL Earnback			
Elapsed time	30 Days	80%	90%		
Farmula	Number of instances within Performance Target/Total number of instances				
Formula	during Measurement Interval				
Measurement	Monthly				
Interval	Monuny				
Reporting	Monthly				
Period	Monthly				
Measurement					
Tool/Source	Contractor-provided				
Data					

### 9 NETWORK SERVICE LEVELS

## 9.1 Transaction Response Time — Internet/Intranet Access

Service Level	Internet/Intranet systems. Response is measured from each Site			
Service Level ID	33			
Definition	Length of time host systems and networks transmit and process requests across the Internet/Intranet and return data to End-User's screen. Internet/Intranet Respond Time will be measured by accessing the County Internet/Intranet Sites			
Service Measure	Performance Target    SL Performance   SL Earnback   SL Ea			
Response Time	Intranet – Within 0.5 seconds Internet – Within 0.75	98% 98%	99% 99%	
Formula	<ol> <li>Test transactions will be sent to designated County endpoints for Intranet/Internet locations every 15 minutes.</li> <li>These transactions will be tested 6 a.m. to 6 p.m. M-F, excluding County Holidays.</li> <li>The algorithm shall be: Number of Internet/Intranet transactions per hour (4) x number of hours checked per day (12) x number of days per Month.</li> <li>The percentage is derived from the number of passing transactions/number of possible transactions</li> </ol>			
Measurement Interval	Every 15 minutes			
Reporting Period	Monthly			
Measurement Tool/Source Data	Time is measured using a defined sampling scheme, data transfer sizes and network Locations. The current measurement tool is network probes, replaced by APM after deployment			

# 9.2 Transaction Response Time – Data Center

Service Level	Transaction Response Time for Server Systems — Local Network			
Service Level ID	34			
Definition	Length of time host systems and networks transmit and process requests and return data to End-User's screen. Response Time will be measured using a defined sampling scheme, data transfer sizes and network Locations. County Sites and management of the probes used will be documented in the Standards and Procedures Manual.			
Service Measure	<b>Performance Target</b>	SL Performance (%)	SL Earnback	
Response Time	• 95% within 1 seconds • 99% within 3 seconds • 99.5%			
Formula	<ol> <li>Test transactions will be sent to an endpoint selected at random. This will be repeated 100 times, and the average response time of the 100 transactions will be recorded.</li> <li>Step 1 will be repeated twice a day, at 9 a.m. and 10 a.m. as well as 2 p.m. and 3 p.m., two days a Week, on chosen business days at random.</li> <li>At the conclusion of the calendar Month, the recorded data for all samples will be added together, divided by the number of samples, and reported.</li> </ol>			
Measurement Interval	See formula			
Reporting Period	Monthly			
Measurement	Time is measured using a defined sampling scheme, data transfer sizes and			
Tool/Source	network Locations. The current measurement tool is network probes,			
Data	replaced by APM after deployment			

# 9.3 Voice System Call Blocking

Service Level	Voice system call blocking				
Service Level ID	35				
Definition	Percentage of calls blocked, or experiencing busy service, measured per trunk route				
Service Measure	Performance Target	St. Performance (%)   St. Earnback			
Calls blocked	24/7	Blocking not to exceed 1% of all calls during each hour by route unless otherwise directed by the County	Not to exceed 0.5% of all calls during each hour by route unless otherwise directed by the County		
Formula	Number of calls blocked or experiencing busy service each hour per trunk/total calls attempted per hour per trunk. This metric will be calculated for each hour of the Month for each phone switch.				
Measurement Interval	Hourly				
Reporting Period	Monthly				
Measurement Tool/Source Data	Tool supplied by the Contractor automatically records date and time stamps for each activity within a process, including uptime and downtime data				

## 9.4 Data Network Availability

Service Level	The percentage of time that the data network is available.		
Service Level ID	36a, 36b, 36c		
Definition	The time during which the network is fully functioning and normal business operations can be carried out with no data loss, downtime, or performance degradation during available site hours.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
	<b>36a:</b> D1 = average availability of all network circuits and active components	D1 ≥ 99.95% aggregate availability	D1: ≥ 99.975%
Availability	<b>36b:</b> D2 = Individual site connected via fiber with the lowest availability	D2 ≥ 99.5% per fiber Site availability	D2: ≥ 99.75%
	<b>36c:</b> D3 = Individual site connected via copper with the lowest availability	D3 ≥ 99% per copper Site availability	D3: ≥ 99.5%
Formula	36A  Components include all circuits and active data network components  Component Availability (%) = 100% - Component Unavailability (%)  Component Unavailability = Component outage duration / Available  Component Hours  Component outage duration does not include scheduled outages  36A = if Average Component Availability of All Active Components >=  99.95%, then Pass; otherwise, Fail.  36B & 36C  Site availability (%) = 100% - Site Unavailability  Site Unavailability = Total Outages at Site / Site Available Hours  Outages do not include scheduled outages  36B= If Site Availability for all Sites linked via fiber >= 99.5%, then Pass; otherwise, see credit table 4.8.14.  36C = If Site Availability for all Sites linked via copper >= 99%, then Pass; otherwise, see credit table 4.8.14.		

Measurement	Monitor Continuously/Measure Daily	
Interval	Monitor Continuously/Measure Dany	
Reporting	Monthly	
Period	Monthly	
Measurement Tool/Source Data	Tool supplied by the Contractor automatically records date and time stamps for each activity within a process, including uptime and downtime data. All performance criteria are to be measured on a per circuit and component basis.	

# 9.5 Internet Availability

Service Level	The availability of the Internet. The percentage of time that the Internet is available for normal business operations.		
Service Level ID	37	•	
Definition	Percentage of time Internet	access is available	
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Availability	24/7	99.80%	99.9%
Formula	Availability (%) = 100% — Unavailability (%) Where Unavailability is defined as: (Sum of Outage Duration x 100%) / (Schedule Time — Planned Outage)		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Tool supplied by the Control for each activity within a pro-	· · · · · · · · · · · · · · · · · · ·	•

# 9.6 Voice Network Availability

Service Level	The percentage of time that the Voice Services (telephone, PBX or voice		
Service Level	mail) is available for normal business operations		
Service Level ID	38		
Definition	Percentage of time that the	Voice Services are availal	ble for use
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Availability	24/7	99.80%	99.9%
	Availability (%) = 100% —	- Unavailability (%)	
Formula	Where Unavailability is defined as:		
	(Sum of Outage Duration x 100%)/(Schedule Time — Planned Outage)		
Measurement	Monthly		
Interval	Worthly		
Reporting	Monthly		
Period	Monthly		
Measurement	Tool cumplied by the Contractor automatically records date and time stamps		
Tool/Source	Tool supplied by the Contractor automatically records date and time stamps for each activity within a process, including uptime and downtime data		
Data	Tor each activity within a pr	rocess, including uptime a	na aowinine data

### 10 DATA CENTER SERVICE LEVELS

# 10.1 Output Delivery

Service Level	Delivery of printed output				
Service Level ID	39				
Definition	Percentage of time that the printed output is created and delivered on time and free from errors and omissions				
Service Measure	Performance Target    SL Performance   SL Earnback				
Percent Attained	Per County schedule Monday — Friday 6 a.m. to 6 p.m., excluding the County Holidays	98%	99%		
Formula	Number of times output met the print window for delivery/total output deliveries				
Measurement Interval	Daily				
Reporting Period	Monthly				
Measurement Tool/Source Data	The tool supplied by the Contractor automatically records date and time stamps each activity within a process, including uptime and downtime data				

# 10.2 Daily Backup

	Daily Backup for:		
Service Level	Incremental		
	• Full		
Service Level ID	40		
D (° '4'	Backup of files that have changed or are new since the last daily backup		
Definition	including a full backup onc	e a week	
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Backup complete	Monthly	99.95	No Earnback
	Daily: Number of objects s	uccessfully backed up with	nin Measurement
	Interval divided by Ttotal n	umber of objects within M	leasurement Interval
Formula			
	Monthly: Number of object	ts successfully backed up v	within the month
	divided by Total number of	objects for the month	
Measurement	Daily and Monthly		
Interval	Daily and Monthly		
Reporting	Monthly		
Period	Monthly		
	The tool supplied by the Contractor automatically records date and time		
	stamps each activity within	a process.	
Measurement	Contractor shall areata a Sa	vramitry 2 Imaidant tialrat in	avamy avant vyhiah an
Tool/Source	Contractor shall create a Severity 2 Incident ticket in every event which an object failed to be backed up for two consecutive days.		
	object faffed to be backed u	p for two consecutive days	S.
Data	Note: Objects can be a UN		
	or UNIX folder, NetApp o	r NAS shares/directories, '	VMWare server
	image or OS Volume.		

# 10.3 Quarterly Backup / Restore

Service Level	Addresses any gaps in proper operation of backup and restore			
Service Level ID	41	41		
Definition	Confirmation that the back	up and restore is properly of	operating	
Service Measure	Performance Target	SL Performance (%)	SL Earnback	
Successful test	Test completed and	100%	No earnback	
completion	confirmed	10070	provision	
Formula	Successful test completion	Successful test completion		
Measurement	Monthly			
Interval	Williamy			
Reporting	Overteely			
Period	Quarterly			
Measurement				
Tool/Source	Contractor-provided			
Data				

### 10.4 Data Restore

	Data restore measurements:			
	Restore Service Request for production data			
Service Level	• •		data volume	
	<ul> <li>Restore Service Request for recovery of test data or data volume backups</li> </ul>			
Service Level ID	42			
<b>Definition</b>	Initiation of restore Service Request			
Demintion	initiation of restore service request	SL Performance		
Service Measure	Performance Target	(%)	SL Earnback	
a. Respond Time	a. ≤3 hours from Service Request	a. 95%	a. 97.5%	
data 30 days	submittal			
old or less				
	b. ≤8 hours from Service Request	b. 95%	b. 97.5%	
b. Respond Time	submittal			
data 31 days				
old or more				
Formula	Restore initiation within the required timeframes, SL success requires meeting performance targets on both a AND b.			
Measurement Interval	Monthly			
Reporting Period	Monthly			
Measurement				
Tool/Source	Contractor-provided			
Data				

### 10.5 Server Decommission

Service Level	Completion of decommission request		
Service Level ID	43		
Definition	Removal of either a physical or a virtual Server from active status and from active billing, if applicable		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Completion Time	Server decommission Monday — Friday 6 a.m. to 6 p.m., excluding the County Holidays	<ul><li>95% within 3 business days</li><li>100% within 30 business days</li></ul>	<ul><li>97.5% within 3 business days</li><li>No earnback provision</li></ul>
Formula	Number of Servers decommissioned within target/total number of Servers authorized for removal during Measurement Interval		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Contractor-provided		

# 10.6 Server Provisioning

Service Level	Server Provisioning		
Service Level ID	44		
Definition	Provisioning a physical production or test Server for use in the network following date of Solution Design Document (SDD) approval.  Note: Server provisioning is defined as Operating System is installed, and tools (as defined in the Build Docs) are installed for management, monitoring, backups and anti-virus, network configuration and on-line, and project team has access and authorization in-place.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Completion	<ul> <li>44-a Physical (excluding Oracle): within 40 business days from SDD approval</li> <li>44-b Virtual: within 8 business days from SDD approval</li> <li>44-a Physical (Oracle): within 59 business days from SDD approval</li> </ul>	<ul><li>95%</li><li>95%</li><li>95%</li></ul>	<ul><li>97.5%</li><li>97.5%</li><li>97.5%</li></ul>
Formula	<ul> <li>44-a Number of Servers Requested for Provisioning within Performance Target / Total Number of Servers Requested</li> <li>44-b Number of Servers Requested for Provisioning within Performance Target / Total Number of Servers Requested</li> <li>44-c Number of Servers Requested for Provisioning within Performance Target / Total Number of Servers Requested</li> <li>Business Day: Monday - Friday 6 a.m. to 6 p.m., excluding the County Holidays</li> </ul>		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Contractor-provided		

			_
SCHEDULI	r 1 Q	CEDVICE	
<b>SCHEDUL</b>	r, 4.0 —	SERVICE	1.6.7.61.5

10.7 [Reserved]

10.8 [Reserved]

<b>SCHEDULE</b>	48_	SERVICE	LEV	TIC
SCHEDULE	4.0 -	SERVICE	LEV	LLS

10.9 [Reserved]

SCHEDULE 4.8 – SERVIC	CE LEVELS		
[0.10 [Reserved]			

# 10.11 Server Software Update

Service Level	Operating System Patching for Windows and Linux servers				
Service Level ID	46-1				
Definition	Implementation of operating system patches and updates for Windows and Linux servers				
Service Measure	Performance Target  SL Performance SL (%) Earnback				
Time to Implement	Within the Patch Cycle, starting on the day after Patch Tuesday of current month, when patches and updates made available from Microsoft and RedHat, through Monday before Patch Tuesday of the next month.  Example: If Patch Tuesday for November is November 9th and Patch Tuesday for December is December 14th, the patch cycle for the period is November 10th through December 9th.  Acceptable Exceptions are limited to prevent disruption of critical business functions (i.e., TTC Property Tax collection periods November-December and March – April; employee benefit enrollment in October; ROV election blackout periods; fiscal year end processing; calendar year-end freeze).	95%	97%		
Formula	Quantity of Windows and Linux servers divided by the Quantity of Windows and (less approved exceptions).				
Measurement Interval	Monthly based on Patch Cycle, not the c	calendar month.			
Reporting Period	Monthly based on Patch Cycle, delivered on the Wednesday after completion of the Patch Cycle.  Example: If Patch Tuesday for November is November 9 <sup>th</sup> and Patch Tuesday for December is December 14 <sup>th</sup> , the patch cycle for the period is November 10 <sup>th</sup> through December 9 <sup>th</sup> . Report delivery date December 15 <sup>th</sup> .				
Measurement Tool/Source Data	Contractor-provided (Ansible)				

Service Level	Operating System Patching for Solaris and AIX servers
Service Level ID	46-2

Definition	Implementation of operating system patches and updates for Solaris and AIX servers.		
Service Measure	Performance Target	SL Performance (%)	SL Earnback
Time to Implement	Within the Patch Cycle, starting on the day after Patch Tuesday of current month, through Monday before Patch Tuesday of the next month. Oracle and IBM release patches on a quarterly basis, not monthly.  Example: If Patch Tuesday for January is January 11 <sup>th</sup> and Patch Tuesday for February is February 8 <sup>th</sup> , the patch cycle for the period is January 12 <sup>th</sup> through February 7 <sup>th</sup> .  Acceptable Exceptions are limited to prevent disruption of critical business functions (i.e., TTC Property Tax collection periods November-December and March – April; employee benefit enrollment in October; ROV election blackout periods; fiscal year end processing; calendar year-end freeze).	95%	97%
Formula	Quantity of Solaris and AIX servers divided by the Quantity of Solaris and A approved exceptions).		
Measurement Interval	Quarterly based on Patch Cycle, not on the calendar month.		
Reporting Period	Quarterly based on Patch Cycle, delivered on the Wednesday after completion of the Patch Cycle.  Example: If Patch Tuesday for January is January 11 <sup>th</sup> and Patch Tuesday for February is February 8 <sup>th</sup> , the patch cycle for the period is January 12 <sup>th</sup> through February 7 <sup>th</sup> . Report delivery date February 9 <sup>th</sup> .		
Measurement Tool/Source Data	Contractor-provided (Ansible)		

Service Level	Operating System Patching for Critical and Zero Day Vulnerabilities	
Service Level	46-3	
ID		
	Implementation of operating system (Linux, Windows, Solaris and AIX)	
Definition	patches and updates specifically identified as Critical or Zero Day	
	Vulnerabilities	

Service	Performance Target	SL Performance	SL
Measure		(%)	Earnback
Time to Implement	Within 24 hours of patches or updates being made available from operating system vendor(s) and 98% within 72 hours. A client approved Emergency Change Request is required predeployment or post-deployment Acceptable Exceptions are limited to prevent disruption of critical business functions (i.e., TTC Property Tax collection periods November-December and March – April; employee benefit enrollment in October; ROV election blackout periods; fiscal year end processing; calendar year-end freeze).	92%	95%
Formula	Quantity of servers patched/updated divided by Quantity of servers impacted by the Critical or Zero Day Vulnerability in the environment (less approved exceptions).		
Measurement Interval	As needed based on Critical and Zero Day Vulnerabilities produced with vendor remedy.		
Reporting Period	As needed but within 24 hours of implemented patches and updates for Critical or Zero Day Vulnerabilities for initial report and within 96 hours for the final report.		
Measurement Tool/Source Data	Contractor-provided		

Service Level	Middleware Vulnerability Remediation for Production PAIDs		
Service Level ID	46-4		
Definition	Remediation of 'critical' and 'high' vulnerabilities found in middleware software that support production applications.		
Service Measure		SL	SL
	Performance Target	Performance	Earnba
		(%)	ck
Time to implement	Within the rolling 60-day Remediation Cycle (RC), starting on the first day of month and last day of following month (generally 60 days). SL report and exceptions report shall be delivered on the 14 <sup>th</sup> of the month immediately following completion of the RC.	80%	90%

Example: If RC #1 period is June 1<sup>st</sup> through July 31<sup>st</sup> with reporting due August, then RC #2 period is July 1<sup>st</sup> through August 31<sup>st</sup> with reporting due September and so on.

#### Example timeline:

- Vulnerability scan execution June 1<sup>st</sup>
- RC #1 period start June 1st
- Vulnerability scan execution July 1<sup>st</sup>
- RC #2 period start July 1<sup>st</sup>
- RC #1 period end July 31st
- Vulnerability scan execution August
- RC #3 period start August 1st
- Delivery of report for cycle #1 August 14<sup>th</sup>
- RC #2 period end August 31st
- Vulnerability scan execution September 1<sup>st</sup>
- Delivery of report for cycle #2 September 14<sup>th</sup>
- RC #3 period end September 30<sup>th</sup>
- Vulnerability scan execution October
- Delivery of report for cycle #3 October 16<sup>th</sup>

#### Acceptable exceptions are limited to:

- Preventing disruption of critical business functions (i.e., TTC Property Tax collection periods November-December and March – April); Employee benefit enrollment in October; ROV election blackout periods; fiscal year end processing; calendar year-end freeze; etc.).
- Current application version not certified for update of middleware.
- Significant upgrade project in progress for PAID will be impacted.

Vulnerability remediation shall be applied to development, test, and production environments.

Vulnerabilities are identified in the vulnerability scan data provided by the ITO Security team. Though scanning is done more often, the scan data used for this SL will be

	from the scans executed on the 1st of the month
	of the appropriate remediation period months.
Formula	Quantity of in-scope "critical" and "high" middleware vulnerabilities (as identified in the vulnerability scan data) remediated during the RC divided by Quantity of in-scope "critical" and "high" middleware vulnerabilities (as identified in the vulnerability scan data) at the beginning of the RC.  "In-scope" quantity excludes acceptable exceptions.  "Remediated during the RC" is calculated by comparing the in-scope vulnerability scan results from the end of the current RC to the in-scope vulnerability scan results from the beginning of the current RC. Any in scope vulnerabilities from the beginning of the RC that is no longer evidenced at end of the RC data, is considered "remediated".  For example, for the RC period June 1st through July 31st, formula calculation is as follows:  (Quantity of "critical" and "high" middleware vulnerabilities remediated of June RC)  — divided by————  (Quantity of "critical" and "high" middleware vulnerabilities on Just formula calculation is as follows:  (Quantity of "critical" and "high" middleware vulnerabilities remediated of July RC)  — divided by————————————————————————————————————
Measurement	Monthly, based on rolling 60-day RC.
Interval	
Reporting Period	Bi-monthly (every two months), based on RC, delivered on the 14 <sup>th</sup> of the month after completion of the RC. The exceptions report will also be delivered on the 14 <sup>th</sup> of the month after completion of the RC. If the 14 <sup>th</sup> of the month is a weekend or holiday, the report will be provided on the next business day.  Example: For the RC period June 1 <sup>st</sup> through July 31 <sup>st</sup> , the SL and exceptions reports shall be delivered on August 14 <sup>th</sup> . For the subsequent RC period July 1 <sup>st</sup> through August 31 <sup>st</sup> , the SL and exceptions reports shall be September 14 <sup>th</sup> , and so on.
Measurement Tool/Source Data	Contractor-provided

Service Level	Application Vulnerability Remediation for Production PAIDs			
Service Level ID	46-5			
	Remediation of 'critical' and 'high' vulnerabilities found at the application level for			
Definition	production applications.			
Service Measure	Performance Target	SL Performance (%)	SL Earnbac k	
Time to Implement	Within the rolling 60-day Remediation Cycle (RC), starting on the first day of month and last day of following month (generally 60 days). SL report and exceptions report shall be delivered on the 14th of the month immediately following completion of the RC.  Example: If RC #1 period is June 1st through July 31st with reporting due August, then RC #2 period is July 1st through August 31st with reporting due September and so on.  Example timeline:  • Vulnerability scan execution – June 1st • RC #1 period start – June 1st • RC #2 period start – July 1st • RC #2 period start – July 1st • RC #3 period end – July 31st • Vulnerability scan execution – August 1st • RC #3 period start – August 1st • Delivery of report for cycle #1 – August 14th • RC #2 period end – August 31st • Vulnerability scan execution – September 1st • Delivery of report for cycle #2 – September 14th • RC #3 period end – September 30th • Vulnerability scan execution – October 1st • Delivery of report for cycle #3 – October 16th  Acceptable exceptions are limited to:  • Preventing disruption of critical business functions (i.e., TTC Property Tax collection periods November-December and March – April; Employee benefit enrollment in October; ROV election blackout periods; fiscal year end processing; calendar year-end freeze; etc.).  • Vulnerability remediation requires an application upgrade.  • Significant upgrade project in progress for PAID will be impacted.	80%	90%	

	Vulnerabilities are identified in the vulnerability scan data provided by the ITO Security team. Though scanning is done more often, the scan data used for this service level will be from the scans executed on the 1 <sup>st</sup> of the month of the appropriate remediation period months.		
	Quantity of in-scope "critical" and "high" application vulnerabilities (as identified in the vulnerability scan data) remediated during the RC <b>divided by</b> Quantity of in-scope "critical" and "high" application vulnerabilities (as identified in the vulnerability scan data) at the beginning of the RC.		
	"In-scope" quantity excludes acceptable exceptions.		
	"Remediated during the RC" is calculated by comparing the in-scope vulnerability scan results from the end of the current RC to the in-scope vulnerability scan results from the beginning of the current RC. Any in scope vulnerabilities from the beginning of the RC that is no longer evidenced at end of the RC data, is considered "remediated".		
	For example, for the RC period June 1st through July 31st, formula calculation is as follows:		
Formula	(Quantity of "critical" and "high" application vulnerabilities remediated during the  June RC)  divided by————		
	(Quantity of in-scope "critical" and "high" application vulnerabilities on June 1 <sup>st</sup> scan)		
	Furthermore, for the subsequent RC period July 1 <sup>st</sup> through August 31 <sup>st</sup> , formula calculation is as follows:		
	(Quantity of "critical" and "high" application vulnerabilities remediated during the July RC)		
	divided by———— (Quantity of in-scope "critical" and "high" application vulnerabilities on July 1 <sup>st</sup> scan)		
Measurement Interval	Monthly, based on rolling 60-day RC.		
Reporting Period	Bi-monthly (every two months), based on RC, delivered on the 14 <sup>th</sup> of the month after completion of the RC. The exceptions report will also be delivered on the 14 <sup>th</sup> of the month after completion of the RC. If the 14 <sup>th</sup> of the month is a weekend or holiday, the report will be provided on the next business day.		
	Example: For the RC period June 1 <sup>st</sup> through July 31 <sup>st</sup> , the SL and exceptions reports shall be delivered on August 14 <sup>th</sup> . For the subsequent RC period July 1 <sup>st</sup> through August 31 <sup>st</sup> , the SL and exceptions reports shall be September 14 <sup>th</sup> , and so on.		
Measurement Tool/Source Data	Contractor-provided		

#### 10.12 Server Availability

Service Level	The percentage of time that the server is available					
Service Level	47					
ID						
Definition	The percentage of time that the system is available for business operations.					
Service	Performa	ince SL	Performance (%)		SL Earn	nback
Measure	Target	00	5% - 99.8% per	production	00 0% *	nar production
			•	•	_	per production
Availability	24/7		Server per Step Reduction Server Schedule Table			
Tivanaomity	2 ,		% per test Server		97.5% r	per test Server
			% per utility Serve			per utility Server
	Availabi		√6 — Unavailabili			
	Where	Unavailability	is defined as	s: (Sum o	of Outa	age Duration x
	100%)/((	Schedule Time	e — (Planned Out	tage))		
		_	on Schedule Tab			
		_	and subsequently			
	_	for a given month. Determine the Fee Reduction percentage based on sum total				
	of Servers that missed the SL Performance and 6-month interval in which given					
	month occurs. For example, in January 2021, four servers missed the SL Performance. Since January 2021 is in the 'Months 7-12' interval, a 25% Fee					
	Reduction percentage applies for calculating the Fee Reduction amount.					
	Reduction percentage applies for calculating the Fee Reduction amount.					
Formula	Step Red	uction Schedu	le Table			
			*Months 1-6	**Months	7-12 **	**Months 13+
		Sum Total of	Fee Reduction	Fee Reduc	tion F	Fee Reduction
		Servers that	99.5% per	99.8% pe	er	99.8% per
		Missed SL	Production	Production	on	Production
	Step	Performance	Server	Server		Server
	0	0 to 3	0%	0%		25%****
	1 4 to 6 25% 25% 50%					50%
	2	7 to 9	50%	50%		75%
	3	10+	100%	100%		100%

*July – December 2020  ** January – June 2021  *** July 2021 and after  **** One server miss at 0%, 2 or 3 server miss are at 25%  For clarity, unplanned outage time shall not be accrued if the server is part of a high availability system/cluster, where the service provided by the server system/cluster remains available.  Utility Servers exist in the environment to optimize support capabilities. No County traffic passes through these servers and they have no direct impact on access, availability, or performance of County users or data. Utility Servers provide:  • Redundant Accessibility  • Administration of Services  • Administration of Cyber Security and Compliance  • Command Line Interfaces for Administration of ESXi  As of 08/10/2020, there are nine utility servers: USSDSCOSD780, USSDSCOSD781, USPLSCOSD105, USTLSCOSD105, USTLSCOSD105, USSDGACSD0001, USTLPACSD0001, USPLVUCSD025,
USTLVUCSD050, and USTLPOCSD0012.
Monthly
Monthly
Tool supplied by the Contractor automatically records date and time stamps for each activity within a process, including uptime and downtime data

#### 11 APPLICATIONS SERVICE LEVELS

#### 11.1 Project Management Plan Rework

Service Level	Each Project Management Plan (PMP) rejection that requires revision, and: a) the revision is delivered during the Measurement Period; and b) the rationale for rejection is either due solely to Contractor-related issues, or a combination of Contractor and County issues			
Service Level ID	48			
Definition	Project delay in Business H The number of Business H business hours from the Co rejection through, and inclu revised PMP. As a part of the rejection pr the rejection falls within, as 1. Contractor Caused Reaso categorized as: A. Project scope is incorrect B. Contractor Math error C. Contractor Schedule issu D. Contractor Fees applied E. Changes made after "dra  2. County Caused Reasons categorized as: A. County requested chang B. County requested chang products to be delivered C. PMP timeframe for appr D. County requested chang E. Time is lost solely due to	ours delayed is defined as unty's notification date to ading, the County's receipt rocess, the County will ide well as the specific reject ons for Rejection (SL clocket based on county input do ne incorrectly offt" review  for Rejection (SL clocket es to scope es to list of planned work roval has expired es to business requirement of contract disputes/reasons	the number of Contractor of a PMP of Contractor's entify the category that ion reason. a starts) must be ocument provided does not start) must be	
Service Measure	Performance Target Number of Business	SL Performance (%)	SL Earnback	
Schedule	Hours delayed during Measurement Period ≤Target Baseline Total of County Business Hours delayed	The Target Baseline Total of Business Hours delayed is  102 hours	No Earnback provision	

Formula	Average Number of County Business Hours Delayed = sum of County Business Hours Delayed on each applicable PMP in the Measurement Period/number of PMPs If the rationale for rejection of a PMP is a combination of Contractor and County issues, then the applicable Business Hours Delayed on the specific PMP for the purposes of this algorithm will be reduced by 50%, or as mutually agreed-upon by the Parties.		
Measurement Interval	Monthly		
Reporting Period	Monthly		
Measurement Tool/Source Data	Metric data is created by the Contractor using Service Request Tracking Sheets		

# 11.2 Service Request Schedule Performance

	Each completed Service Re	equest with an approved PN	MP. Exclusions:		
	Firm fixed price Service Requests				
Service Level	This SL will be in effect for each in-flight Service Request which had an				
Service Level	approved PMP prior to the implementation of this SL. Exceptions to this				
	will be on a case-by-case ba	asis and will be agreed upo	on prior to the		
	implementation of this SL.				
Service Level ID	49				
	Service Requests completed	* *	• •		
Definition	non-approved project revisi	ions as identified via forma	al change request		
	process.				
Service Measure	Performance Target SL Performance (%) SL Earnback				
	Meet SPI target				
Schedule	Monday — Friday 6 a.m.	$SPI \ge 0.90$	No Earnback		
Schedule	to 6 p.m., excluding the	SP1 ≥ 0.90	provision		
	County Holidays				
	'm' = multiplier for Fee Ad	ljustment calculation. 'm'	= 0.05		
Formula	'n' = factor for Fee Adjustr	ment calculation. 'n' = $165$	,000		
	SL Fee Adjustment = m * (	(n/SPI <sup>2</sup> )			
Measurement Interval	Monthly				
Reporting Period	Monthly				
Measurement Tool/Source Data	Last approved schedule and	Last approved schedule and SPI			

# 11.3 Variance to Application Budget

Service Level	Service Request Budget Performance			
Service Level ID	50			
Definition	Measurement of performance to budget and how the Contractor meets its projections excluding any non-approved project revisions as identified via formal change request process.			
Service Measure	Performance Target	SL Performance (%)	SL Earnback	
Budget	Adherence to budget	CPI => 0.90	No Earnback provision	
Formula	'm' = Multiplier for fee red Service Level Fee Reduction		sudget / CPI)	
Measurement Interval	Each completed Service Request with an approved Project Management Plan (PMP).  Exclusions:  • Firm Fixed Price Service Requests  This Service Level shall be in effect for each in-flight Service Request which had an approved PMP prior to the implementation of this Service Level. Exceptions to this shall be on a case-by-case basis and will be agreed upon prior to the implementation of this Service Level.  The types of costs that are to be included in the budget and actual calculations for the Service Level are labor billed through resource units as defined in the Agreement.  The fee reduction upper bound is the weighting percentage of the at risk pool.			
Period	Monthly			
Measurement Tool/Source Data	Last approved budget and CPI			

# 11.4 Application Availability

Service Level	Measurement of service for general application availability			
Service Level ID	51			
Definition:	The percentage of time that the application is available for normal business operations. Application environments that have performance issues not within control of the Contractor to correct and as demonstrated by the Contractor will be eligible for an exclusion at the County CIO's discretion			
Service Measure	Performance Target	SL Performance (%)	SL Earnback	
Availability	Available 24/7	99.90%	99.95%	
		P1, P2 and P3	P1, P2 and P3	
		applications	applications	
Formula	Total available hours for P1 / total hours in measurement period for P1 AND  Total available hours for P2 / total hours in measurement period for P2 AND  Total available hours for P3 / total hours in measurement period for P3			
Measurement	Monthly			
Interval				
Reporting Period	Monthly			
Measurement Tool/Source Data	Tool supplied by the Contr stamps for each activity wi data	•		

# 11.5 Application Availability (Priority 1)

Service Level	Measurement of service for general application availability for Priority 1				
Service Level	(P1) applications	(P1) applications			
Service Level ID	51-1				
	The percentage of time that the application is available for normal business				
Definition:	operations. Application env	vironments that have perfor	rmance issues not		
Definition.	within control of the Contra	actor to correct and as dem	onstrated by the		
	Contractor will be eligible	for an exclusion at the Cou	inty CIO's discretion		
Service Measure	Performance Target	Performance Target SL Performance (%) SL Earnback			
Availability	Available 24/7	99.90%	99.95%		
Formula	Total available hours for P1 / total hours in measurement period for P1				
Measurement	Monthly				
Interval					
Reporting	Monthly				
Period					
Measurement	Tool supplied by the Contractor automatically records date and time stamps				
Tool/Source	for each activity within a pr	rocess, including uptime ar	nd downtime data		
Data					

# 11.6 Application Availability (Priority 2)

	Measurement of service for	general application availa	bility for Priority 2		
Service Level	(P2) applications	general application availa	omity for Friority 2		
Service Level ID	51-2				
Service Level ID					
	The percentage of time that	the application is available	e for normal business		
Definition:	operations. Application env	rironments that have perfor	rmance issues not		
Denintion.	within control of the Contra	actor to correct and as dem	onstrated by the		
	Contractor will be eligible to	for an exclusion at the Cou	nty CIO's discretion.		
Service Measure	Performance Target	Performance Target SL Performance (%) SL Earnback			
Availability	Available 24/7	99.90%	99.95%		
Formula	Total available hours for P2	2 / Total hours in measurer	nent period for P2		
Measurement	Monthly				
Interval	•				
Reporting	Monthly				
Period					
Measurement	Tool supplied by the Contractor automatically records date and time stamps				
Tool/Source	for each activity within a pr	cocess, including uptime ar	nd downtime data		
Data					

# 11.7 Application Availability (Priority 3)

	Measurement of service for	general application availa	bility for Priority 3		
Service Level	(P3) applications	general approaction availa			
Service Level ID	51-3	· / **			
	The percentage of time that	The percentage of time that the application is available for normal business			
Definition:	operations. Application env	rironments that have perfor	rmance issues not		
Definition.	within control of the Contra	actor to correct and as dem	onstrated by the		
	Contractor will be eligible to	for an exclusion at the Cou	nty CIO's discretion.		
Service Measure	Performance Target SL Performance (%) SL Earnback				
Availability	Available 24/7	99.90%	99.95%		
Formula	Total available hours for P3	3 / Total hours in measurer	nent period for P3		
Measurement	Monthly				
Interval					
Reporting	Monthly				
Period					
Measurement	Tool supplied by the Contractor automatically records date and time				
Tool/Source	stamps for each activity with	thin a process, including up	otime and downtime		
Data	data				

# 11.8 Documentation Update Accuracy

	Measures adherence to undate the Applications configuration repository						
Service Level	and Application architectural documents						
Service Level ID	52						
Definition:	**						

- 7. Software (X items of s/w needed for the application)
  - a. Name updated/entry created if RFC identifies that SW was installed, removed or updated.
  - b. Version updated/entry created if RFC identifies that SW was installed, removed or updated.
  - c. Vendor updated/entry created if RFC identifies that SW was installed, removed or updated.
- 8. Application Associations/Dependencies
  - a. PAID updated/entry created if RFC identifies application association.
  - b. App Name/Dependency Type updated/entry created if RFC identifies application association.
  - c. Portfolio updated/entry created if RFC identifies application association.
- 9. Application Interfaces
  - a. Name updated/entry created if RFC identifies interface.
  - b. Description updated/entry created if RFC identifies interface.
  - c. Type updated/entry created if RFC identifies interface.
  - d. Frequency updated/entry created if RFC identifies interface.

#### 10. MSI

- a. Name updated/entry created if RFC identifies new, removed or updated MSI.
- 11. Active Directory (AD)/Service Account (SVC)
  - a. Name updated/entry created if RFC identifies new, removed or updated Service Account or AD Account.
  - b. Type updated/entry created if RFC identifies new, removed or updated Service Account or AD Account.
- 12. Document Link to current Configuration Instructions
  - a. Doc Type must be completed
  - b. Name must be completed
  - c. Link must be completed and linked documents must be updated as validated by the 'Modified' date in the file properties of the configuration instruction.
- 13. Document Link to current Installation Instructions
  - a. Doc Type must be completed
  - b. Name must be completed
  - c. Link must be completed and linked documents must be updated as validated by the 'Modified' date in the file properties of the Installation Instructions.
- 14. Document Link to current Architecture Diagram
  - a. Doc Type must be completed
  - b. Name must be completed
  - c. Link must be completed and linked documents must be updated as validated by the 'Modified' date in the file properties of the Architecture Diagram.

	<ul> <li>15. Document link to current Solution Design Document</li> <li>a. Doc Type – must be completed</li> <li>b. Name – must be completed</li> <li>c. Link – must be completed and linked documents must be updated as validated by the 'Modified' date in the file properties of the SDD.</li> </ul>			
Service Measure	Performance Target SL Performance (%)		SL Earnback	
Document updated	In Scope documents updated per schedule. Schedule will be derived from open actions during CRCB readiness review. Readiness review items determined from the weekly Approved RFC's spreadsheet used by the CRCB.	95%	97.5%	

Formula	For documented RFCs: Total in scope documents and Apps Manager fields completed correctly and those that met action due dates as identified during Review /total in scope documents and Apps Manager fields for documented RFCs  Each in scope document is counted separately.  Each in scope Apps Manager field is counted separately.
Measurement Interval	Monthly
Reporting Period	Monthly
Measurement Tool/Source Data	Document and field compliance are measured and documented during the Change control process. The source data that triggers an event to be in-scope for this SL is the weekly Approved RFC's spreadsheet.  The Gate Review Coordinator resource documents compliant items and necessary actions in the Gate Visibility Board and tracks to completion. Schedule is identified as action date on the Visibility board and 95% of those follow up dates are met. Maximum due date is 15 business days from Apps Manager actions identified.  For instances where a new or updated SDD or Architecture diagram is required, the new/updated SDD or Architecture diagram would be submitted to EA for approval within 15 business days.  SL for each artifact is measured based on the identified completion month of the last action due date for that artifact, not the completion month of the associated RFC.

# 11.9 Application Response Time

Response Time of the Application for End-User to include all functions of						
Service Level	Application. Appl	ication e	nvironments the	at have perf	ormance issues not v	vithin
Service Lever	control of the Con	tractor to	correct and as	demonstrat	ed by the Contractor	will
	be eligible for an exclusion at the County CIO's discretion.					
Service Level ID	53					
Definition	Effective Respons	se Time f	or End-Users a	ccessing the	Application	
Service Measure	Performance Target SL Performance (%)			SL Earnback		
Response Time	Response Time 24 <2 seconds	1/7	Aggregate 9 Application	98% Per	NA	
	Use the Step Redu	ction Scl	nedule Table to	determine t	he applicable Fee Re	duction
	percentage and si	ubsequen	tly calculate th	ne Fee Red	luction amount for a	a given
	month. Determin	e the F	ee Reduction	percentage	e based on sum t	otal of
				-	erval in which given	
	* *				Applications missed	
			•	•	s 1-9' interval, a 50	
					Reduction amount.	
	Troudeness percent	age appr	ies for earearact	ing the ree i		
	Step Reduction So	hedule T	Tables for Priori	ty 1, 2, and	3 Applications:	
	Priority 1			tember 2023 and		
	Applications		2023		after	
	Fee Reduction	Appli	cations Missing	д Арр	lications Missing	
	Percentage		Target		Target	
Formula	0%					
	25%					
	50%		1		1	
	100%		2+		2+	
	Priority 2	Octob	er <b>2021 –</b> Augu	st Sept	tember 2023 and	
	Applications		2023		after	
	Fee Reduction	Appli	cations Missing	д Арр	lications Missing	
	Percentage		Target		Target	
	0%		1-2		0-1	1
	1 1	1				
	25%		3-5		2-3	
	25% 50%		3-5 6-8			

	Priority 3 Applications Fee Reduction Percentage	October 2021 – August 2023 Applications Missing Target	September 2023 and after Applications Missing Target	
	0%	1-2	0-1	
	25%	3-5	2-3	
	50%	6-8	4-5	
	100%	9+	6+	
Measurement Interval	Monthly			
Reporting Period	Monthly			
Measurement Tool/Source Data	Measured based on submittals that incorporate measurements from Application Performance Management tool			

# 11.10 Root Cause Analysis Action Closure

Service Level	Root Cause Analysis Corrective and Preventative Action Completion				
Service Level ID	55				
Definition	Closure of identified corrective and preventative actions from Root Cause Analyses (SL 24)				
Service Measure	Performance Target SL Performance (%) SL Earnback				
Elapsed Time to produce RCA report	Actions closed within published timeframe (subject to mutual agreement)	99%	99.5%		
Formula	Number of instances within Performance Target/total number of instances during Measurement Interval  For clarity – actions requiring CoSD approval/support may be excluded subject to mutual agreement.				
Measurement Interval	Monthly				
Reporting Period	Monthly				
Measurement Tool/Source Data	Measured by the Problem r	nanagement system			

#### 12 TRANSITION SERVICE LEVELS

The County recognizes that transitioning from one primary Contractor to another requires a unique level of cooperation and facilitation between the Legacy Provider and the Contractor. In general, the Contractor will assume responsibility for Service Framework-specific Service Levels upon Cutover of the applicable Service Framework. The Contractor will not be responsible for Service Levels (or portions of Service Levels) relating to Service Frameworks that are not within its control. For Service Levels that span Service Frameworks (e.g., Incident Service Levels), the Contractor shall have responsibility when the fix is within a Service Framework for which the Contractor has already assumed control and responsibility.

#### 13 SPECIAL REQUIREMENTS

In addition to Service Levels, Contractor shall comply with the Special Service Levels specified in Schedule 4.8 Services Levels - Exhibit 4.8-1 Special Service Levels.

#### 14 NETWORK CREDIT TABLE EXAMPLES

SL36b and 36c shall compute SL credits based on the following:

**Network Availability:** Allow 1 failure for availability target every 100 sites (rounded up)

0% of allocated weight if # of failures is less than or equal to allowable failures

25% of allocated weight if # of failures exceeds allowable failures

50% of allocated weight if # of failures exceeds 2x allowable failures

100% of allocated weight if # of failures exceeds 3x allowable failures

For clarity, if the number of sites is 1 to 100, the allowable failure count is 1; if the number of sites is 101 to 200, the allowable failure count is 2; if the number of sites is 201 to 300, the allowable failure count is 3, etc.

Examples based on 125 T1 sites and 171 Fiber sites (1 allowable failure for T1, 2 allowable failures for Fiber):

**Example #1** - One "Fiber" location does not meet its individual availability target; no SL credit is due to the County

**Example #2** - Three "Fiber" locations do not meet their individual availability targets; an SL credit of 25% of the allocated weight is due to the County

**Example #3** - Three "Fiber" locations do not meet their individual availability targets and three "T1" locations do not meet their individual availability targets; an SL credit of 75% of the allocated weight is due to the County (25% + 50%)

**Example #4** - Three "Fiber" locations do not meet their individual availability targets; six "T1" locations do not meet their individual availability targets; an SL credit of 100% of the allocated weight is due to the County (25% + 100%; however the maximum credit due is capped at 100% of the assigned weight)

END OF SCHEDULE