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**Document Title:** 2015 POA Problem Management - Problem Review

**Document Reference:** SVM/SDM/INR/3037

Release: Release Independent

**Abstract:** This report contains the trend analysis of the 34 problem records

raised in the POA Problem Management TfS database during

2015.

For Review **Document Status:** 

Jolene Ngu - Problem and Major Incident Management **Author & Dept:** 

**External Distribution:** Not Applicable

**Security Risk Assessment Confirmed** 

Security risks have been assessed and it is considered that there are no security risks relating specifically to this document.

**Approval Authorities:** 

Name	Role	
Steve Bansal	Senior Service Delivery Manager	

See RMG BU Reviewers/Approvers Matrix (PGM/DCM/ION/0001) for guidance on who should approve.

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# **0 Document Control**

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# 0.2 Document History

Only integer versions are authorised for development.

Version No.	Date	Summary of Changes and Reason for Issue	Associated Change - CP/PEAK/PPRR Reference
0.1	05/01/2016	Initial Draft – This version was used for the formal 2015 Problem review held on Wednesday 20 <sup>th</sup> January 2016.	
0.2	21/01/2016	Second draft containing updates following the formal 2015 Problem review held on Wednesday 20th January 2016.	
0.3	03/05/2106	Revised to include updates on closed Problem Records and providing feedback on actions	

# 0.3 Review Details

Review Comments by:	
Review Comments to:	Jolene.Ngu GRO + RMGA Document Management

If preferred you can delete the following Mandatory and Optional reviewer tables and paste in the appropriate list copied from RMB BU Reviewers/Approvers Matrix (PGM/DCM/ION/0001).

Mandatory Review	
Role	Name

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Senior Service Delivery Manager	Steven Bansal
---------------------------------	---------------

Optional Review				
Role	Name			
Problem Manager	Steve Gardiner			
Remote Infrastructure Management	Rajaram Kuppuramaseshan			
Systems Management & Global Cloud Manager	Catherine Obeng			
Service Delivery Manager	Roger Stearn			
Infrastructure Manager	Andy Hemingway			
Chief Architect	Torstein Godeseth			
System Architect	Mia Angell			
Test Manager	Mark Ascott			
Service Delivery Manager	Yannis Symvoulidis			
SAP Service Delivery Manager	Paul Mailey			
Principal Technical Services Specialist	Neil Preston			
Principal Technical Services Specialist	Andrew Gibson			
Senior Customer Solutions Architect	John Bradley			
Head of Post Office Transformation Service	lain Janssens			
Senior Project Manager	Katy Hogan			

#### (\*) = Reviewers that returned comments

Issued for Information – Please restrict this distribution list to a minimum	
Position/Role	Name
POA Operations Director	Peter Thompson

# 0.4 Associated Documents (Internal & External)

References should normally refer to the latest approved version in Dimensions; only refer to a specific version if necessary.

Reference	Version	Date	Title	Source
PGM/DCM/TEM/0001 (DO NOT REMOVE)	See note above	See note above	RMGA BU Generic Document Template	Dimensions
PGM/DCM/ION/0001 (DO NOT REMOVE)			RMG BU Document Reviewers/Approvers Role Matrix	Dimensions
SVM/SDM/PRO/0025			POA Problem Management Procedure	Dimensions

0.5 Abbreviations

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Abbreviation	Definition
ADSL	Asymmetric Digital Subscriber Line
AP	Automated Payment
BAL	Branch Access Layer
BAU	Business As Usual
DVLA	Department of Vehicle Licensing Authority
GWS	Generic Web Server
ISP	Internet Service Provider
ITG	Information Technology Group (within Fujitsu Services)
KEL	Knowledge Entry Log
МССВ	Moulded Case Circuit Breakers
MSC	Managed Service Change
MSS	Managed System Service
NBSC	Network Business Support Centre
PM	Post Master
POA	Post Office Account
RCA	Root Cause Analysis
SSC	Software Support Centre (third line application support)
TfS	Triole for Service

# 0.6 Glossary

Term	Definition
PPD	Platform Physical Design
HDCR	Horizon Data Centre Refresh
NNM	Network Node Manager

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# **Changes Expected**

Changes

#### 8.0 **Accuracy**

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# **Security Risk Assessment**

Security risks have been assessed and it is considered that there are no security risks relating specifically to this document.

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# Introduction

Within SVM/SDM/PRO/0025 the POA Problem Management Procedure there is a requirement in section 4.3 to undertake trend analysis, within section 4.4.2 to review the Knowledge database and within section 4.5 to review the problems which were raised, their ownership and continue monitoring for service improvement opportunities.

# 1 Analysis

This document contains the analysis of the 34 problem records raised in the POA Problem Management TfS database during 2015.

# 1.1 Categorisation

The analysis has been conducted in two phases. The first phase has been conducted by a POA Problem Manager and has resulted in categorising the problems into three types.

- Type 1 Further analysis is required within Post Office Account seeking input from POA design, development, testing and release. Sixteen problem records were classified under this category.
- Type 2 These were Administration Closures, e.g., the problem record was raised in error against the incorrect resolver group. Four problem records were classified under this Category.
- Type 3 –The underlying issue was found to have originated in a third party domain, e.g., Post Office Limited or one of their clients or suppliers. Fourteen problem records were classified under this category.

# 1.2 POA Review of Problems in the Fujitsu Domain or Further Consideration Required.

On Wednesday 20<sup>th</sup> January 2016 at 09:30 a review was held of the problem records from 2015 which were categorised as type 1 by the following group;

Mark Ascott Live System Test

Andrew Gibson UNIX

Andy Hemingway Infrastructure

Tony Wicks Problem Management

Rajaram Kuppuramaseshan SMC

Nirupama Sane POLSAP Support
Gaby Reynolds Online Services

Nick Crow Branch and Comms Management

Jolene Ngu Problem Management

Subsequent to the review applicable Problem Records for 2015 were discussed with Roger Stearn POA Networks SDM and Torstein Godeseth POA Chief Architect.

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For each Problem Records of this type I have included a two further lines within the table documenting the findings and recommendations from the review or subsequent discussions, and proposed actions. It is planned that a follow-up on those actions will be conducted after 3 months – End of March 2016.

# 1.3 Table of Results.

Problem Ref	Summary	<u>Description</u>	Proposed Action	Closed	
Problems in the Fujitsu Domain or Further Consideration Required.					
A10972720	The SMC site in Bangalore have been experiencing power loss and previous incidents indicate that it did not switch over to the emergency generator.	After carrying out a root cause analysis, it was ascertained that the failures were due to malfunction of the MCCB. The existing MCCB was replaced with a new MCCB and it has been tested on 4 cycles and no trip in current occurred.	Consideration should be given for the SMC to liaise with supplier of MCCB device to see if they can improve the quality of the delivered item.	Yes	
Findings and	Recommendations.				
		place to assist in preventing this onths and no issue has been identi		uture. The	
Action:					
As a monthly	r checklist has been ρι	at in place, no further action is rec	ommended.		
A10893754	System monitoring is falsely alerting that Reconciliation file transfers have abended and failed.	A master PEAK (PC0247384) was used to investigate the underlying fault and a fix has been targeted for Release 13.11 which is expected to be released to live in June 2016.	As a preventive measure, future designs checks can be done during development so false alerts won't occur during the releases.	No	
Findings and	Recommendations.				
At the review	v, it was agreed that co	ding checks could possibly be un-	dertaken by Development.		
Action:					
Tony Wicks to write to Development requesting them to consider if it's possible to do some coding checks for this and similar situations as per the failure. This request has been made for Development's consideration.					
A10821106	Transaction discrepancies can occur during the Rem In process – especially when transferring cash	The underlying cause of this problem is that a logout before a user has fully logged on, then subsequently a pouch is rem-in manually, then after the rem in slip has been printed,	It is suggested that a 'regression' test for this type of failure could be run on new releases before released into the Live environment.	Yes	

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	from one branch to another (e.g., between their main branch to their outreach branch).	the same screen is redisplayed and if the user press Enter again, a duplicate will occur. A code fix has been developed and is in release 12.88 Hot fix		
It is suggestereleased into		test for this type of failure could l . A regression test has been adde		
Action:	THE FOLGASCO.			
As a regressi	ion test has been put i	n place since R12.88, no further a	ction is recommended.	
A10530531	Network instability has caused a number disruptions to Post Office branch service during the week commencing Monday 12th October.	Specific targeted network traffic from a third party caused instability in the Fujitsu shared network. This irregular targeted traffic was caused by a configuration issue on a third party router.	Consideration should be given for Fujitsu Networks & Telecoms when implementing a new solution to protect the Fujitsu connect DSL network from abnormal traffic.	Yes
Findings and	Recommendations.	<u> </u>		
Fujitsu Netwo	orks & Telecoms advis	sed a script was introduced during reoccurrence in the future.	the Major Incident to prote	ct the
Action:  No further Po	OA / Fujitsu action is re	ecommended.		
A10122010	VPX servers crashing.	There are several underlying causes for the VPX crashes. Development have ascertain that it may be caused by memory leakage, NetCool probes or Server software upgrades including security patches.	Consideration could be given for hardware and software upgrade based on the server lifespan.	Yes
		The POA Problem and Incident Team will be monitoring this until mid-February 2016 and Development will be following up on the NetCool concerns with MSS via PEAK.		
Findings and	Recommendations.			l

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the VPX servers and entries are made into the report when there is a failure.

been added into Post Office Detail Branch Report. Additional measures have also been taken to monitor

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		em Record are on-going.		
A9391723	Concerns have been raised within POA that there are possible SPoF within the HNG-X infrastructure and that a platform recovery strategy needs defining.	The POA Chief Architect was leading on the platform recovery strategy. Additionally, an exercise was started for Problem Management to liaise with the Disaster Recovery (System Owner) on the documentation that already exists on Single Points of Failure. SPOFs related to the Bladeframe will be going as part of Horizon Refresh.	There should always be a clear recovery strategy and capability defined for all platforms and a nominated owner for all platforms.	No

#### Findings and Recommendations.

As part of the HNG-X Data Centre Refresh it is intended that Physical Platform Design specifications are being updated to include the platform recovery strategy within the document.

Additionally, a tactical solution is being implemented, under CP1725, for the cloning of platforms.

#### Action:

No further POA action to that above is recommended.

A9331408	POA are non- compliant with the ITG code of connection regarding Windows 2003 servers	POA are non-compliant with the ITG code of connection regarding Windows 2003 servers. There are three POA servers (LSBPPRG001, CITPXCS002, CITPNAL002) which ITG intend to quarantine on Friday 17th July 2015 and it is possible that there could be more servers.  Tracking the project weekly ensured that all servers were migrated or retired with the exception of the Integration managed Dimension Servers.	Consideration should be given to always ensure that the operating system used is still in support and whenever necessary, for an update to be done before expiry date. If the operating system support is going to be withdrawn, an action needs to be taken before 1 year of the date.	Yes

#### Findings and Recommendations.

It was concluded that all servers should have proper design documentation, e.g., PPD's, regardless of whether in live or ITG.

### Actions:

Tony Wicks to write to John Bradley highlighting the issue and requesting that consideration is given to documenting within the PPD's when the server and software support expires and constructing a database which contains component details & expiry dates and provides adequate advanced warning that support is going to expire.

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A8954715	An incomplete GlobalPay payment file was delivered on Wednesday 27th May 2015.	It was identified that the cause of the problem was a number of records that had not been removed from a database table by the standard housekeeping	As a corrective action has been put in place with 2 new columns added fo housekeeping routines and a dashboard has beer added to HORice, I do no	
	OA action is recommer		As a second to the second	V -
Action:				
of POA and Record A912 third party de	Fujitsu control and PO 29261, "Unannounced omains which have ca	to unannounced changes in the A Problem Management have a and uncoordinated infrastructurused serious service outages", fi his under Continual Service Imp	re changes are being imple or which ATOS Problem Ma	in Probler emented i anagemer
Findings and	d Recommendations.		1	
		MSC 043J0436836 raised for corrective actions		
	Support Packs & Kernel Patches for POLSAP not all patches would load and short dump errors were seen 14th June 2015	have been identified. The underlying causes identified were, changes and replacements to system solutions that integrate with POLSAP, other suppliers to Post Office of components that integrate or use POLSAP may be changed without detailed discussions or fully exploring the impacts,	given for improvement in test strategies in situations with multiple suppliers.	
No further Posts A9157767	OA action is recommer Whilst applying	nded. Several underlying causes	Consideration could be	Yes
Action:				
Managemen upgrades e.g		ed and considered the suggestio e time and effort required for the ases, was not justified.		
Findings and	d Recommendations		1	
A9157908	Following GoldenGate replication aborting Branches reported cash declaration and stock reporting discrepancies 5th June 2015.	The underlying cause is the replication between GoldenGate and Oracle 10g and 11g aborted, resulting in a number of branches reporting cash declaration and stock reporting discrepancies.	Test team could consider if further tests could be carried out before releasing into Live.	Yes
part of the H	DCR programme.	an the recommendation is going  The underlying cause is the		

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them to identify the transaction to which they relate. The key is a 9-digit sequence number generated by the system and is recycled.  Several corrective actions had taken place to resolve the problem. These actions are tracked under Major	
the problem. These actions	

#### Findings and Recommendations.

As a permanent corrective action has been put in place with 2 new columns added for housekeeping routines and a reporting capability for payment files has been added to HORice it was concluded that no further action is required.

#### Action:

No further action is required as the corrective action mentioned above has been completed.

A8721041	Post Code	POA Development undertook	I don't think that we	Yes
	Anywhere –	testing from a Development	could prevent a	
	Request From Post	environment with PostCode	recurrence of this, i.e.,	
	Code Anywhere to	Anywhere (PCA) as part of the	Post Code Anywhere	
	update the Secure	Study which was conducted	updating SSL network	
	Socket Level	under CP1603. This conclude	software is outside our	
	Network Software.	that no specific change was	control – but as a	
		required. A fix took place	preventative measure	
		which consist of two parts	this should be reported	
		which are detailed in MSCs	through the Network	
		043J0439149 & 043J0439154.	Service Reviews.	
		Testing took place at the Post		
		Office Model office which was		
		deemed successful. MSC		
		043J0439154 took place and		
		removed the static IP		
		addresses.		
			l .	<u> </u>

#### Findings and Recommendations.

There is no action that Fujitsu can take. POL and Atos should advise Fujitsu of any proposed changes in another domain. A Change Request should have been submitted by POL / ATOS. The related Problem Record is A9129261 and ATOS advised that they have raised a CSI 3893 to address the issue of unannounced and uncoordinated infrastructure changes being implemented by third parties.

## Action:

No further POA action can be taken.

A8199235	Counters have	The underlying cause of the	PC0241242	Yes
	crashed whilst	issue is an error in the coding	Consideration Could be	

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	performing Health Lottery Transactions.	for counter.	given for checks to be done for other all transactions types. If the transaction fails due to poor communication with the data centre (Network issue) and user was logged out by the system.  When the user logged back in, the recovery kicked-in. But the recovery of transaction failed. (Test the recovery)	
Findings and	Recommendations.			
The Live Sys additional te extend the ti	stem Test team reviewe sting would require a co	ed and considered including this i onsiderable amount of manual inp conducting the tests it was conclu	out and resources. As this w	ould
Action:				
At this time i	no further POA action is	s recommended.		
A7964442	The Foundstone Servers have not been fully operable following a recent upgrade	The core issue is that both Foundstone servers are broken and we are unable to get support from the vendor (McAfee) because both the hardware and software is end of life and our existing support contract expired 11-FEB-2015.	Consideration could be given to always ensure that the hardware used is still in support and whenever necessary, for an upgrade to be done before expiry date. If the hardware support is going to be withdrawn, an action needs to be taken before 1 year of the date.	No
Findings and	Recommendations.		I	<u> </u>
Post Office		his issue with the Foundstone So	erver and have decided no	t to make
	e follow-up action (abo	ve) for A9331408 which helps t	o address the issue of sof	tware and
Action:				
No further a	ction to be taken.			
A7709793	When the Fujitsu Debit Card Service (DEA) servers		X 25 is old technology, the nature of the failure is not applicable to other	Yes

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rehome, or if the

network has an

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network services. No

further tests could be

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	to be a 45 mir the ne connece establi Merche (Global Recom	ctivity being shed with the ant Acquirer alPay). amendations. y, the nature of the sheet and a sheet a she		ilure is not applicable away from the X25 to			ices. It is	
		POA is recomm						
A7224474	Januar Suppo made issue v wherel were e slow p and ac At 11:2 POLS hung ir indeter Proble POLS unable POLS	AP system	caus the i resti	her analysis into root se is ongoing, howeve nvestigation will be ricted, due to the file em having been rebui		It is considered further actions of place.		Yes
Findings and	Recom	mendations.				I		<u> </u>
The POLSA system starts		have reported t	hat d	aily checks have bee	en pu	it in place at 08.	00 hours I	pefore the
Action:								
No further ad	ction is r		ctive	action has been put ir	n plad	ce.		
A7941790		Disruption to Network Bankin Services on Sunday 15th March 2015 following the implementation MSC 043J0427 10, IRE11 Fire Service Module	of '418- wall	The underlying cause of the failure cannot be undertaken until the IOS operating system upgrade is implemented again. As this would induce a repeat failure	to test be IOS befo	, 0	Yes	
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The CISCO	I Recommendations.  Firewalls are being rein Q2 2016 (April-June).	CISCO have recommended the Firewall IOS operating system remains at the current version until the Firewall hardware is upgraded. Post Office Limited are required to submit a change request to imitate a Firewall hardware upgrade.	a-Centre Refresh. This is e	xpected to
·				
Action:				
	<u> </u>	rective action has been put in pla	ce.	Т
Administ	ration Closures			
A10519660	Low Optical Power fault on DWDM link at FS-SDC02/1- MX03	This Problem Record was raised in error.	Admin Closure – No action.	Yes
A10364554	Can't connect to the Balfour Beatty tape library in SDC01	This Problem Record was raised in error.	Admin Closure – No action.	Yes
A10091154	Test Call	This was a test Problem Record.	Admin Closure – No action.	Yes
A7709307	Potential Delays in resolving incidents across the End to End Horizon Service.	This was a duplicate Problem Record – see A7503925 below.	Duplicate Problem Record Admin Closure - No action.	Yes
Issue in T	hird Party Doma	ain	1	1
A10519956	CGI have confirmed the Credence application is unavailable for all users	The underlying cause of this issue is that the G drive in Credence server had become full.	Issue in Third Party domain - No action.	Yes
A10443897	Manual Log On	The underlying cause of the	Issue in Third Party	Yes
	l .		1	

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	Credentials to Access First Rate sever	incident was that incorrect authentication details were incorrectly enter due to human error and that, as Secure File Transfer Protocol does not allow a manual break out, it is not possible to take corrective action, e.g., enter the correct authentication details	domain - No action	
A9401004	POA HNG-X are receiving unauthorised web service requests from POL Clients through to the Collect & Return (CWS) service via the Royal Mail portal.	On Friday 22 <sup>nd</sup> April 2016 a cross domain conf call was held with ATOS, POL, RMG and FJ. RMG advised us that they do undertake CustomerID checks on requests made to them and RMG have throttling on the number of requests they can be pass through to the CWS servers.	Issue in Third Party domain - No action.	Yes
A9130208	CSC implemented server changes within their environment which lead to Production POLSAP operational issues.	The issue in this Problem Record is also covered by A9129261 and A915777	Issue in Third Party domain - No action	Yes
A9129261	Unannounced and uncoordinated infrastructure changes are being implemented in third party domains which have caused serious service outages.	ATOS have moved this to Continual Service Improvement and are now managing this under CSI3893	Issue in Third Party domain - No action	Yes
A9101997	Since the 28th May 2015 Fujitsu Services have been unable to pull the E-Pay Daily Transaction Feed files.	This is reported as coinciding with a firewall change taking place within the third party domain.  In any case the solution was to remove an unnecessary NAT rule in the E-pay -> Post Office direction and this change has been performed on both sites firewalls. The NAT rule that has been	Issue in Third Party domain - No action	Yes

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		removed is unnecessary as connections are always made in the Post Office -> E-pay direction."		
A9042829	Monitoring is Alerting Radius Authentication Failure User-Name for the Branch Router at FAD 180523.	It is reported the branch closed in November 2014. ATOS/POL advise the router has now been removed from site.	Issue in Third Party domain - No action	Yes
A9040664	Monitoring is alerting mismatches between BAL and PIN Pad serial numbers.	The Problem Record was closed by ATOS. POL is to raise a Change Request on ComputaCenter to address this.	Issue in Third Party domain - No action	Yes
A8688801	Due to a faulty POL AP-ADC Script First Rate Branch Order Files are failing Transformation.	The fix was implemented in live on the 1st of June and no further failures in First Rate have been identified.	Issue in Third Party domain - No action	Yes
A7938892	Data from January and February 2015 shows monitoring events triggered by loss of connectivity to the Branch routers for AEI devices	This problem is within the AEI external domain	Issue in Third Party domain - No action	Yes
A7503925	Potential Delays in resolving incidents across the End to End Horizon Service.	FJ investigations have identified a possible SSL certificate issue within the 3rd Party domain. ATOS have moved this to Continual Service Improvement and are now managing this under CSI3821	Issue in Third Party domain - No action	Yes
A7503916	Incorrect Support Route Being Used - Non-conforming with agreed processes.	This problem is within the external domain	Issue in Third Party domain - No action	Yes
A7424176	The current route for the Ingenico Paystation file into Fujitsu is not	Improvement planned to send the file directly using SFTP so that the usual ITR error reporting/retry process would	Issue in Third Party domain - No action	Yes

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	clearly understood by the Technical Support teams.	be used, this is part of the CIF519 POL Win in Mails development work		
A7332347	System Alerts are being raised for National Express Ticket services due to National Express stop lengths being greater than 50 characters for "ArrivalLocationStopName and DepartureLocation StopName.	This problem is within the external domain	Issue in Third Party domain - No action	Yes

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