ICL Pathway	**Group Definitions for the Secure NT Build Core Services Release +**	Ref: RS/REQ/016
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Document Title:	Group Definitions for the Secure NT Build
Document Type:	Requirement Definition

Abstract: The ACP requires that access to Pathway systems be controlled by the use of pre defined roles to which users can be assigned. Such roles will allow users to access only those parts of the system, with associated objects, they need in order to complete the tasks associated with that particular role. This document summarises this requirement and defines the roles, with associated objects, domains and access requirements.

Status: Approved

Author(s): Mark Ascott/Alan D'Alvarez

Distribution:

Barry Procter	FEL01	Alan D'Alvarez	BRA01
Geoffrey Vane	FEL01	Dave Johns	BRA01
John Allen	FEL01	Pete Dreweatt	BRA01
Mike Holms-Sharp	FEL01	Tom Northcott	BRA01
Pete Lindsey	FEL01	Mik Peach	BRA01
Nial Finnegan	FEL01	Gerry Boyce	IRE11
Belinda Fairthorne	REA23	Jenny Smith	BRA01
Suzanne Gordon	BRA01	Pam Barlow	FEL01/KID01
Andrew Walker	FEL01		
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0. Document control

0.1   Document history

This table records the document history of RS/REQ/016, which is based on an identical copy of RS/REQ/012 v5.2. V1

Version	Date	Reason
0.1	11/10/99	Initial draft for PVCS review cycle.
0.2	3/11/99	Incorporates comments received from Barry Procter and Patrick Weightman resulting from PVCS review cycle.
1.0	4/11/99	Document set to Approved.

0.2   Approval authorities

This document will be approved by Geoffrey Vane, Security TDA

Approval Authority	Signature	Date
Geoffrey Vane		
Alan D'Alvarez		

0.3   Associated documents

	Reference	Vers	Date	Title
ACP	RS/POL/0003	3.0	18/12/98	Access Control Policy
SFS	RS/FSP/0001	3.0	3/12/97	Security Functional Specification
NT DOM	RS/DES/0051	1.0	19/08/99	CSR+ NT Domain Design
NT ROLES	RS/REQ/012	5.0	04/06/99	NT Groups Definition for NR2

0.4   Abbreviations and definitions

Local   Access via the console attached directly to an NT platform

0.5   Changes in this version

Changes made to Scope and Appendix A.

0.6   Changes Forecast

Clarification of roles used to administer the MIS is being sought. One or more new roles may be identified to replace the MIS BPS User role which is being removed. Any new roles identified will be introduced as a result of a CP.

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Changes to introduce Operational Change Management Service (OCMS) will be included once a CP for this is impacted by SDU.

0.7   Table of content

Appendices
   A.   Table of roles and associated access requirements for Human Users
   A.   Table of Service User Accounts

1.

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Introduction

The nature of the Pathway system requires that access to the core systems should be strictly controlled. [ACP] states that effective control depends on having a clear definition of the roles and responsibilities of all personnel who need some form of access to the system. Users will gain access by being assigned to these roles. This will be core to Pathway implementing the principles of least privilege.

This document summarises the requirement and defines the human roles that will be implemented for NT platforms; which objects will be used by each role; the domains each role will function within; access point for the role; and associated privileges.

2. Scope

This document addresses the roles to be implemented as part of the Pathway central NT systems and access rights assigned to each role. Each role within this document access the datacentre through the Pathway NT Domain Structure referenced in [NT DOM]. With regard to roles accessing systems in the Rollout Database domain, FRODB, all roles described here will apply to all systems described in [NT DOM]. Roles described in this document will not apply to the RODB Replication Server, which is not a member of the FRODB domain.

Roles used by SMC, SMG and Girobank are specifically excluded from this document as they authenticated on separate NT systems which form part of a managed service.
Roles used and defined by OSD are described in this document for completeness. Configuration of these roles in the live estate may be partly provided by SDU and T&I PIT or completely by OSD.

3. Requirements

The requirement to implement a role based access control system emanates from [ACP]. [ACP] further defines the roles that are required for access to the Pathway Systems and the responsibilities of these roles.

It should be noted that the Pathway solution has moved on since Version 2 of the ACP was issued and, as such, the Groups defined at Appendix A do not always correlate with the roles defined in [ACP]. This will be addressed by feeding these role definitions into the current review of the ACP which will be subject to a CP once all necessary changes have been agreed.

4. Implementation

Each role will be set up as a Group within NT. Individual users will be assigned to these Groups in which access to objects, domains, servers and associated privileges will be controlled. These Groups are defined in Appendix A.

Roles will have defined access points which will have an accompanying Platform Design Document. Access to objects will be made available to each role at the relevant access

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point. This document specifically covers the Groups accessing the data centres. The Horizon Helpdesk and SMC/SMG roles are the responsibility of the appropriate managed service for the provision of suitable client systems compliant to the SFS and ACP.

The definition of the users will be held in a spreadsheet, or similar, and automated tools will be used for the production of the relevant command scripts.

Human roles and service users, as defined in this document, will be implemented using automated command scripts. By doing this, it will simplify the implementation and maintenance of the roles and service users defined in Annex A and B. Exceptions to this are those roles within the support services, ICL Outsourcing and SSC, who will also access toolsets via the command line. All roles only have authority to access the toolsets specified in this document.

Human users created from the defined roles may only be members of one role/Group definition. This is required to ensure the user is only provided with one appropriate toolset.

Implementation of the toolsets for the ICL Outsourcing roles will be the responsibility of the managed service and profiles will be set up locally on the NT client. In these instances there will be no user profile on the PDC.

Implementation of the menu structure for each Group will ensure that users assigned to that Group will be able to access the application set necessary for them to fulfil their duties. Not all tools will be available through a direct menu option; for example, Business Objects Universes will be accessed via a Business Object menu option. The Business Objects Administrator will be responsible for allocating the appropriate universes to users. Those 'tools' prefixed with '>' will not typically be assigned as a menu option through the PDC.

4.1   NT Administrator User

The Windows NT operating system is provided with a super user known as the 'Administrator'. This user has full administration and configuration privileges which is exercised at both system/server and domain level. This capability cannot be removed from Windows NT. Pathway recognises the power that this user has and the ability that a human user, using the administrator user, has to interfere with the day to day operation of the Pathway solution.

To address this issue, Pathway will limit and restrict the use of the NT Administrator User. This will be achieved by:
➢ Renaming the Administrator User on all NT Servers so that it is hidden from the system. The account name and password will be specified by the Pathway Security Manager, which will be strictly controlled and stored in a secure safe.
➢ Restrict full administrator privileges to the 'Operational Management' role. Use of this role will be subject to the management and procedural controls set out in the 'Pathway Code of Practice', PA/STD/010.

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5. Notes that apply to Annex A

Those 'tools' prefixed with '>' will not be assigned as a menu option from the users workstation/access point. Instead the tool will be made available to the user from the Command Line.

The term NT Resource Kit will mean the full complement of NT Resource Kit utilities will be made available to the user role.

The term NT Resource Kit* {Toolname} will mean only the specific Resource Kit utility or utilities specified by {Toolname} will be made available to the user role.

The term NT Server Tools will mean the default Administrative Tools (Common) executables delivered with the NT Operating System.

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APPENDIX A – Human User Roles

Group Name to be implemented	Tools	NT Servers	Access Rights	Authentication Domain	Resource Domain access	Access Point	ACP Equivalent
ICL Outsourcing							
Application SUP	➤ Discoverer 2000 ➤ PC Xware ➤ Microsoft Office ➤ Onnnet (telnet/ftp) ➤ Patrol v3.2.05 ➤ Legato Administrator ➤ IE4.0 ➤ SQL Server Admin ➤ CMD prompt	B/W SLAM Domain User Access to Sequent	Read / Write / Execute	PWYDCS PWYHQ HUTHTIP FARNHAPS LEICHAPS	B/WSLAM	CFM NT Client PC	Application Support (CFM)
Base Installation & Configuration **(not an account template - no system policy)**	NT Administrator	All Servers	Administrative Full	Local	Server Console	Server Console	Base Installation & Configuration (CFM)
Engineer	Event logs System Shut Down	All Servers Assign as member of power users group	Read / Execute	PWYDCS PWYHQ PWYKMS PWYFTMS FRODB HUTHTIP FARNHAPS LEICHAPS	SEQSUP ORASUP B/WSLAM B/WPOCL B/WBOOT B/WOPSS PWYMAS BRASUP FELUSRS SIGF CONFMAN CORPPWY	Server Console	Engineers (NT Data Centres)
Security Managers	➤ NT User Manager ➤ SQL Server Admin ➤ SQL Server SecurityManager ➤ CMD prompt	All Servers	Read/Write	PWYDCS PWYHQ PWYFTMS HUTHTIP FARNHAPS LEICHAPS	All	CFM NT Client PC	Security Management

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				FRODB			
Operational MAN	➢ Compaq systems reference library ➢ Insight Manager ➢ SQL Server Admin ➢ Technet ➢ Microsoft Office ➢ NT Resource Kit ➢ Onnnet (telnet/ftp) ➢ Patrol v3.2.05 ➢ Legato Administrator ➢ nt srvtools ➢ Tivoli desktop ➢ IE4.0 for access to Tivoli web ➢ NT resource kit remote console server ➢ PC Xware ➢ CMD prompt ➢ VPNDiagClient.exe ➢ Notepad ➢ SVPNTSTN.exe (Utimaco API Function Tool)	All Servers Access to Sequent	Administrative Full	PWYDCS PWYHQ PWYFTMS HUTHTIP FARNHAPS LEICHAPS FRODB	All	CFM NT Client PC	Operational Management (CFM) Riposte Management
Network Managers	➢ Telnet ➢ Router Configuration Software ➢ Network Diagnostic software ➢ CMD prompt ➢ VPNDiagClient.exe			PYWDCS	N/A	Network Client PC	Network Management Configurer
Sequent Support	➢ PC Anywhere ➢ Hyper Terminal	Access to Sequent	Read	PWYDCS	SEQSUP	Sequent Client PC	Sequent Support
Oracle Support	➢ Telnet	Access to Sequent	Read	PWYDCS	ORASUP	Oracle Client PC	Oracle Support

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EMC Support	➢ EMC proprietary ➢ Client software	Access to Sequent	Read	PYWDCS	N/A	EMC Client PC	None
SSC Apps MAN	CMD prompt ➢ Tivoli Remote Console ➢ Rclient ➢ Rconsole ➢ RiposteGetMessage.exe ➢ RiposteIndex.exe ➢ RiposteNode.exe ➢ RiposteObjectSecurity. Exe ➢ RiposteObject.exe ➢ RipostePing.exe ➢ RipostePriorityMessage. exe ➢ RiposteQueryUK.exe ➢ RiposteNextMessage.exe ➢ RipostePutMessage.exe ➢ RiposteScanMessage. ➢ RiposteStatus.exe ➢ RODBClient.exe ➢ SQLServer V6.5 client utilities ➢ ExCeed for Windows NT (V 6.1) ➢ Visual Basic I.D.E. Telnet NT utilities ➢ FTP (To Host Sequent, and other POCL Services)	All Servers Also; Access to Sequent	Read/Write/ Execute	PWYDCS PWYHQ PWYFTMS HUTHTIP FARNHAPS LEICHAPS FRODB	All	SSC NT Client PC SD/DES/101	Application Support (SSC)

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	Microsoft Diagnostics NT Event Viewer WinZip/Pkzip CD Rom writing software Textpad NotePad Microsoft Word Microsoft Excel Microsoft Access Microsoft Explorer Internet Explorer (c/w SSC default links page) Services Manager Performance MonitorRegistry editor ＿ In-house Utilities ➢ Archve Viewer ➢ Expiry Reporter ➢ Stops Reporter ➢ Formatted File Utility ➢ MessageStore Utility ➢ EndOfDay Reporter ➢ MessageStore Sort Utility VPN Utilities ➢ VPNDiagClient.exe ➢ SVPNTSTN.exe							
SSC Apps SUP	CMD prompt ➢ Tivoli Remote Console ➢ Rclient ➢ Rconsole ➢ RiposteGetMessage.exe	All Servers Also; Access to Sequent	Read / Execute	PWYDCS PWYHQ PWYFTMS HUTHTIP FARNHAPS LEICHAPS	All	SSC NT Client PC SD/DES/101	Application Support (SSC)

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				FRODB			
	➢ RiposteIndex.exe ➢ RiposteNode.exe ➢ RiposteObject.exe ➢ RipostePing.exe ➢ RipostePriorityMessage.exe ➢ RiposteNextMessage.exe ➢ RiposteQueryUK.exe ➢ RiposteScanMessage.exe ➢ RiposteStatus.exe ➢ RODBClient.exe ➢ SQLServer V6.5 client utilities ➢ ExCeed for Windows NT (V 6.1) ➢ Visual Basic I.D.E. Telnet NT utilities ➢ FTP (To Host Sequent, and other POCL Services) Microsoft Diagnostics W Event Viewer WinZip/Pkzip CD Rom writing software Textpad Microsoft Word Microsoft Excel Microsoft Access Microsoft Explorer Internet Explorer (c/w SSC default links page) Services Manager CMD Prompt Performance Monitor						

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	In-house Utilities						
	➢ Archve Viewer						
	➢ Expiry Reporter						
	➢ Stops Reporter						
	➢ Formatted File Utility						
	➢ MessageStore Utility						
	➢ EndOfDay Reporter						
	➢ MessageStore Sort Utility						
	VPN Utilities						
	➢ VPNDiagClient.exe						

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Group Name to be implemented Pathway Roles	Tools	NT Servers	Access rights	Authentication Domain	Resource Domain access	Access Point	ACP Equivalent
Auditors	Legato client.exe RiposteRQueryUK Oracle Discoverer Counter Determinant MS Word MS Access MS Excel MS Word Pad Note Pad WinZip v6..3 CD Writer Software Windows Explorer Printer DLT MS Backup	Audit Archive and Retrieval Server Correspondence Server	Read/ Execute	PWYDCS	B/WOPSS	Audit PC SD/DES/077	NAO Auditor POCL Auditor Pathway Business Functions Auditor
ACDB Admin	ACDB Client.exe ➢ assign member of ACDB Admin Group	Auto-Configuration Server	Read/Write/Execute	PWYDCS	B/WOPSS	Auto-Configuration Client PC SD/DES/026	None
ACDB User	ACDB Client.exe (assign member of ACDB User Group)	Auto-Configuration Server	Read/Write/Execute	PWYDCS	B/WOPSS	Auto-Configuration Client PC SD/DES/026	None
Business Support	RiposteQueryUK.exe Business Objects ➢ TPF Business Objects Designer Oracle Forms SUPF Series (Helpdesk)	Access to Correspondence Server	Read / Execute	PWYHQ	B/WOPSS	Business Support Client PC SD/DES/092	Business Support Pathway Management
SLAM Users	SLAM Database CON SQL* Forms CCS SQL* Forms Business Objects	B/WSLAM	Read/Execute	PWYHQ	B/WSLAM	SLAM Client PC SD/DES/015	Implicit in text

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	Business Objects Designer Business Objects Supervisor Reference Data Windows Explorer MS Word MS Excel Printer 3.5 floppy CD ROM Telnet						
MIS BUS DEV Users	Business Objects ➢ Business Universe Windows Explorer MS Word MS Excel Printer	B/WSLAM Access to Data Warehouse	Read/Execute	PWYHQ	B/WSLAM	SLAM Client PC SD/DES/015	Implicit in text
ECCO MIG Users	As per SD/DES/016	Migration Agent Server	Read/Write/Execute	PWYMAS		ECCO Migration Laptop SD/DES/016	None
RDMC Admin	RDMC Access Control RDMC Interactive Data Loader RDMC Release Manager RDMC Reports RDMC Send MS Word MS Excel Riposte memo Winzip Discoverer 2000	RDMC/RDDS	Read/ Write/ Execute	PWYDCS	FELUSRS	RDMC Administrator Workstation SD/DES/048	
RDMC User	RDMC Interactive Data Loader RDMC Release Manager RDMC Reports RDMC Send MS Word	RDMC/RDDS	Read/ Write/ Execute	PWYDCS	FELUSRS	RDMC Administrator Workstation SD/DES/048	

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	MS Excel Riposte memo Winzip Discoverer 2000						
RODB Users	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read / Execute within SQL DB	FRODB		RODB Client PC SD/DES/050	None
RODB Admin	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server ACDB Server All FRODB Domain Servers and Workstations	Read/ Write/ Execute	FRODB	B/WOPSS	RODB Client PC SD/DES/050	None
RODB Supplier	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None
RODB Cel	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None
RODB Energis	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None
RODB Exel	RODB Client SQL Server 6.5 Client Configuration Utility	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None

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	ODBC						
RODB Peritas	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None
RODB Sorbus	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None
RODB WTL	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None
RODB POCL	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None
RODB Pearce	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None
RODB Tivoli	RODB Client SQL Server 6.5 Client Configuration Utility ODBC	RODB Server	Read/ Execute	FRODB		RODB Client PC SD/DES/050	None

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| Security Auditors | SecurID admin.client
Event Viewer
Tivoli Web Browser
MS Access | All
Access to
Enterprise Server
(SecurID) | Read / Execute | PWYDCS
PWYHQ
PWYFTMS
HUTHTIP
FARNHAPS
LEICHAPS
FRODB | All | SecurID Admin W/S

SD/DES/090 | Pathway Security
Event Auditor |
| Pathway SECMAN | SecurID admin.client
Event Viewer
Tivoli Web Browser
MS Access | All
Access to
Enterprise Server
(SecurID) | Read /Execute | PWYDCS
PWYHQ
PWYFTMS
HUTHTIP
FARNHAPS
LEICHAPS
FRODB | All | SecurID Admin W/S

SD/DES/090 | Pathway Security
Manager |

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Group Name to be implemented	Tools	NT Servers	Access Rights	Authentication Domain	Resource Domain access	Access Point	ACP Equivalent
Key Managers	KMA GUI Crystal Reports NOTE Do not install Crystal Query Client Crystal Query Server Web Report Server	KMA Server	Read/Execute	PWYKMS	N/A	KMA Workstation	Cryptographic Key Manager
Data Managers	KMA GUI Crystal Reports NOTE Do not install Crystal Query Client Crystal Query Server Web Report Server	KMA Server	Read/Execute	PWYKMS	N/A	KMA Workstation	KMA Data Manager
KMS SecMANs	SQL Server Admin Including SQL Server Security Manager MS Query SQL Trace Utility SQL Server Books Online CMD Prompt Usrmgr.exe	All KMS Servers and Domain Workstations	Read/Execute	PWYKMS	N/A	KMS Admin Workstation	Security Manager
KMS DBA	SQL Server V6.5 Client Utilities including ISQL/W Enterprise Manager MS Query	KMA Server	Read/Execute	PWYKMS	N/A	KMS Admin Workstation	Database Administrator

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	SQL Trace Utility SQL Server Books Online						
KMS Apps SUP	SQL Server V6.5 Client Utilities including ISQL/W Enterprise Manager MS Query SQL Server Books Online Crystal Reports NOTE: Do not install Crystal Query Client Crystal Query Server Web Reports Server	KMA Server	Read/Execute	PWYKMS	N/A	KMS Admin Workstation	Application Support (SSC)
KMS SYSADMs	Insight Manager NT Resource Kit Patrol v3.2.05 Legato Administrator NT Server Tools Tivoli desktop IE4.0 for access to Tivoli web CMD Prompt Rconsole	All KMS Servers	Administrative	PWYKMS	N/A	KMS Admin Workstation	Operational Management (CFM)
KMS Auditors	MS Word MS Access MS Excel MS Word Pad Note Pad Windows Explorer Printer	KMA Server	Read/Execute	PWYKMS	N/A	KMS Admin Workstation	NAO Auditor POCL Auditor Pathway Business Functions Auditor

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APPENDIX B – Service User Accounts

This table lists by Domain those service users that are configured on the Domain PDC.

Service User Account Name	Domain Account Created In	Comments	
ACDBsql FTMS MAESTRO Signing KMHarvester KMLoader VPNPMCSVC VPNPMSSVC	BOPSS	MSSQLServer and SQLExecutive Services FTMS User MAESTRO User Signing Service KM Key Object Harvester KM Key Object & Memo Loaders VPN Service User VPN Service User	
FTMS MAESTRO	BPOCL	FTMS User MAESTRO User	
FTMS POCLHAPS	FARNHAPS	FTMS User POCL HAPS Service	
FTMS MAESTRO	FRODB	FTMS User MAESTRO User	
FTMS HHDBTX HHDMitel HHDSorbus	HDHORIZON	FTMS User Horizon Helpdesk BTX User Horizon Helpdesk Mitel User Horizon Helpdesk Sorbus User	
FTMS POCLRDB POCLRDT POCLRMAIL POCLTIP POCLSAPADS	HUTHTIP	FTMS User POCL RDB Service POCL RDT Service POCL RMAIL Service POCL TIP Service POCLSAPADS Service	
FTMS POCLHAPS	LEICHAPS	FTMS User POCL HAPS Service	

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MAESTRO RDMC	PWYDCS	MAESTRO User RDMC Service User	
MAESTRO FTMSAPS FTMSBGT FTMSCQO	PWYFTMS	MAESTRO User FTMS APS Service User (Local Gateway) FTMS APS User for BGT client FTMS APS User for CQO client	
DBABatch Interactive Service KMABatch KMA Service MAESTRO	PWYKMS	Maestro DBA Service User Interactive service Account KMA Maestro SQL Service KMA Service Account MAESTRO User	
MAESTRO	PWYMAS	MAESTRO User	
Signing	SIGF	Signing Service	
ACDBsql FTMS MAESTRO Signing KMHarvester KMLoader VPNPMCSVC VPNPMSSVC	WOPSS	MSSQLServer and SQLExecutive Services FTMS User MAESTRO User Signing Service KM Key Object Harvester KM Key Object & Memo Loaders VPN Service User VPN Service User	
FTMS MAESTRO	WPOCL	FTMS User MAESTRO User	
FTMS MAESTRO	WSLAM	FTMS User MAESTRO User	