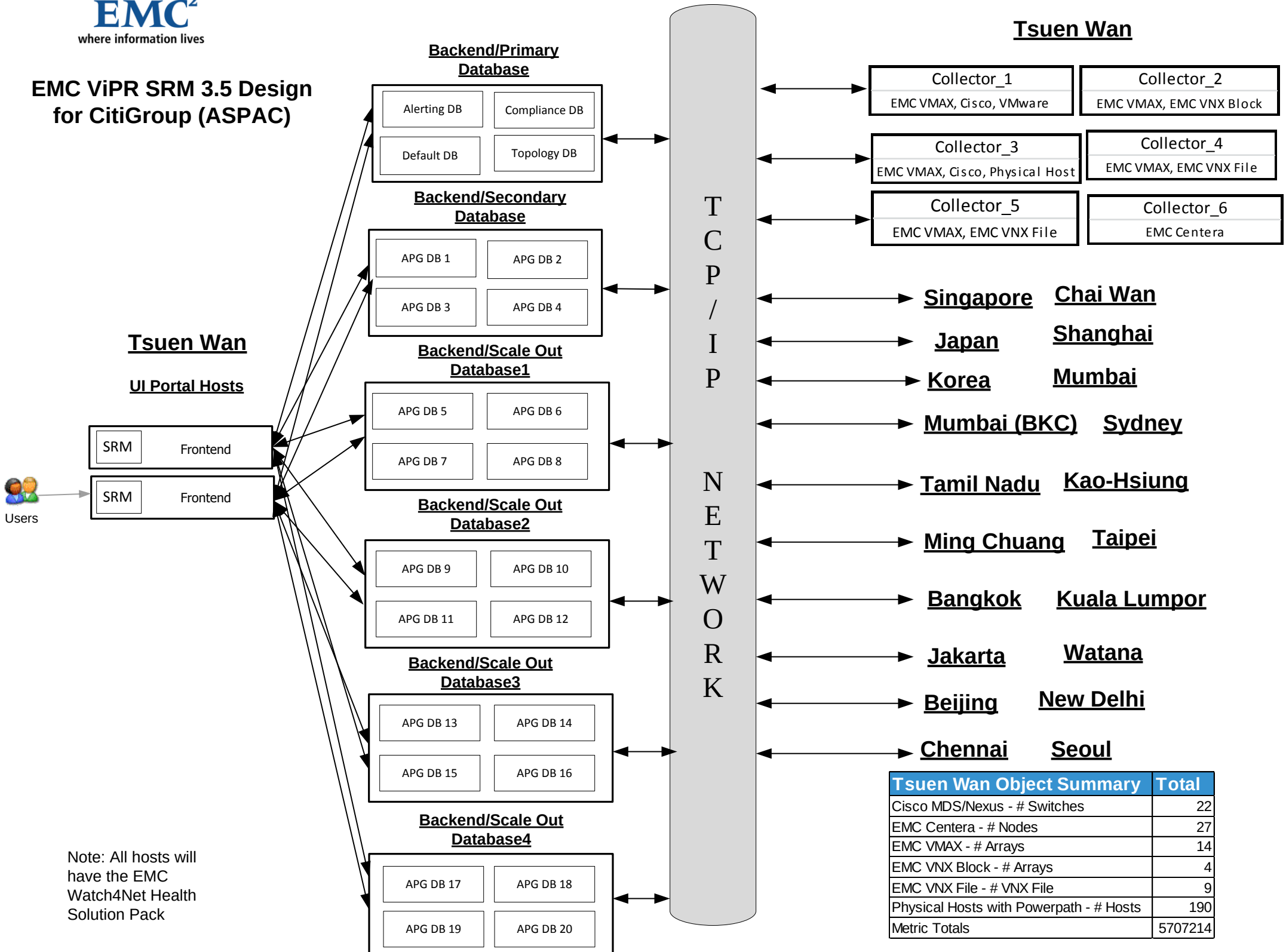
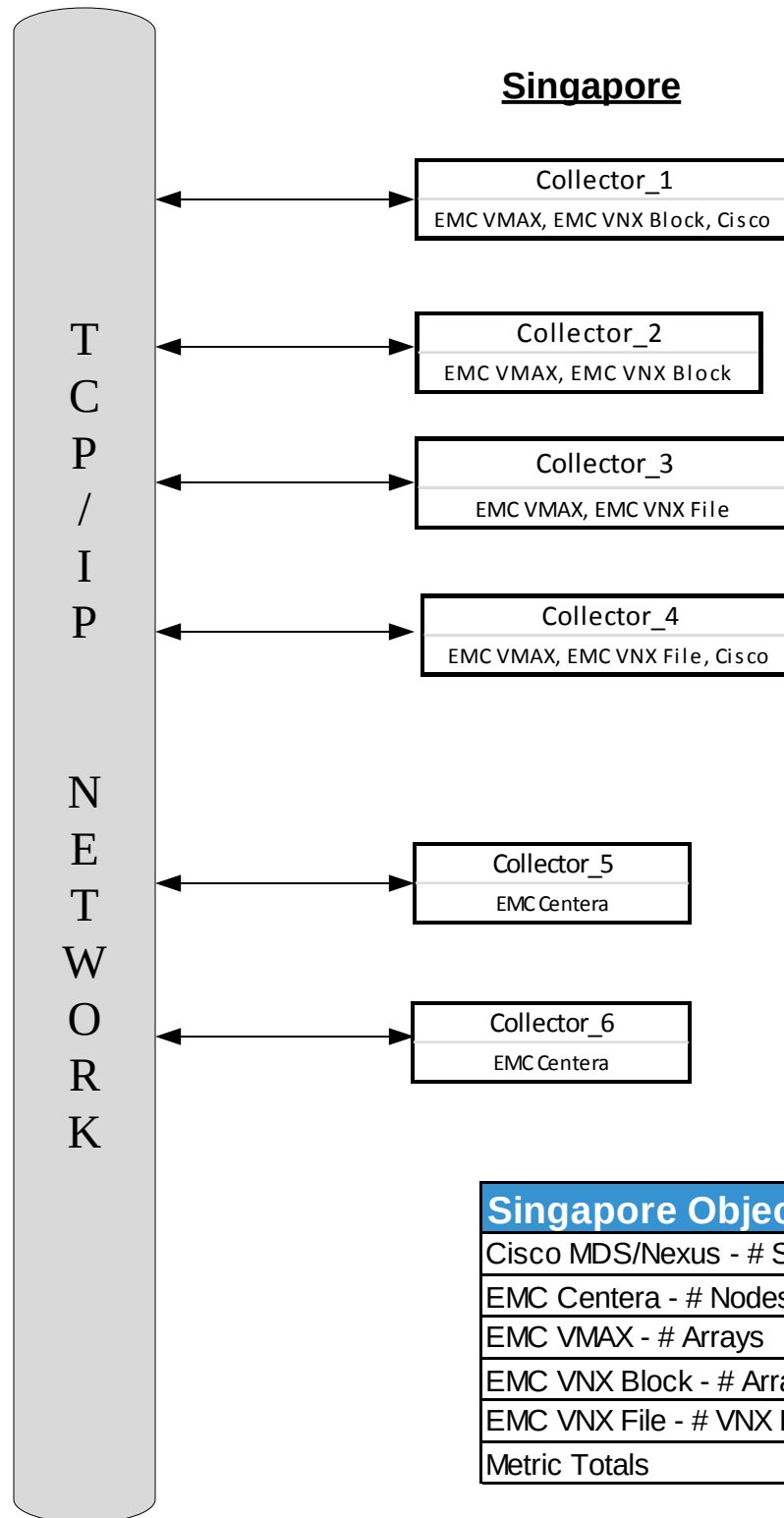


EMC ViPR SRM 3.5 Design for CitiGroup (ASPAC)



Note: All hosts will have the EMC Watch4Net Health Solution Pack

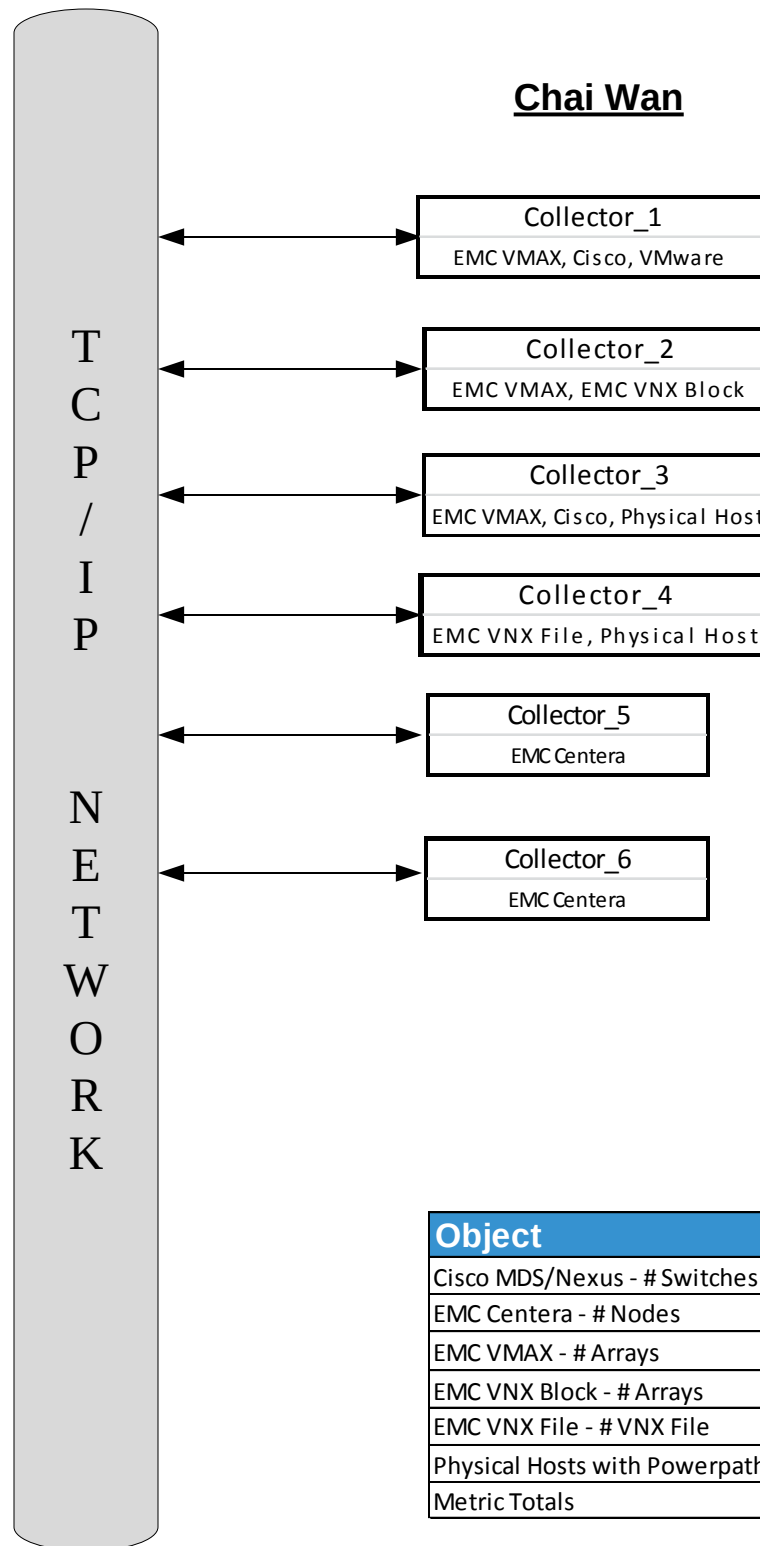
EMC ViPR SRM 3.5 Design for CitiGroup (Singapore Collectors)



Note: All hosts will have the EMC Watch4Net Health Solution Pack.

Singapore Object Summary	Total
Cisco MDS/Nexus - # Switches	50
EMC Centera - # Nodes	423
EMC VMAX - # Arrays	21
EMC VNX Block - # Arrays	7
EMC VNX File - # VNX File	19
Metric Totals	5751529

EMC ViPR SRM 3.5 Design for CitiGroup (Chai Wan Collectors)



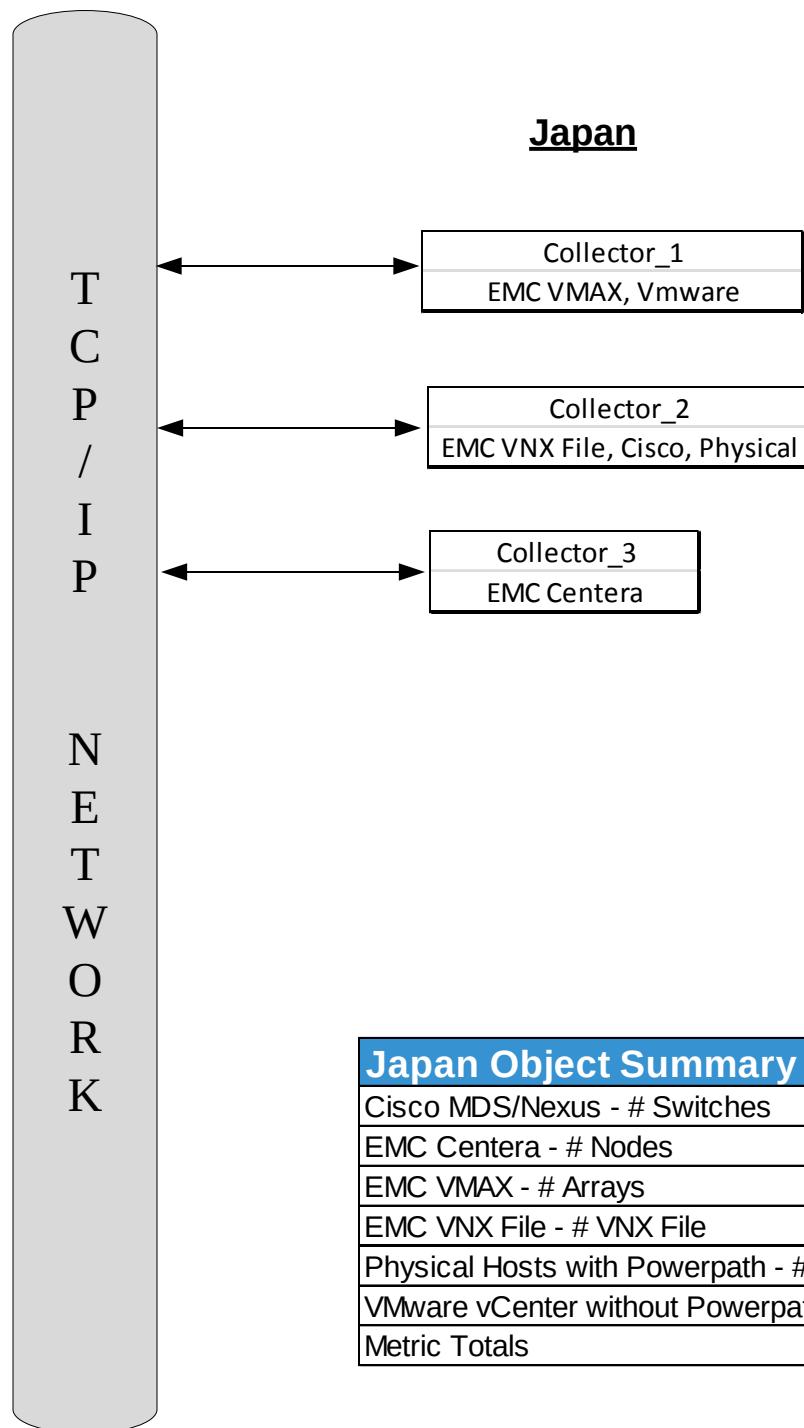
Note1: The Chai Wan collectors will also discover objects in Hunghom.

Note: All hosts will have the EMC Watch4Net Health Solution Pack

Object	Chai Wan	Hunghom	Total
Cisco MDS/Nexus - # Switches	25	2	27
EMC Centera - # Nodes	316		316
EMC VMAX - # Arrays	9		9
EMC VNX Block - # Arrays	4		4
EMC VNX File - # VNX File	6		6
Physical Hosts with Powerpath - # Hosts	1032		1032
Metric Totals	3134415	9817	3144232



EMC ViPR SRM 3.5 Design for CitiGroup (Japan Collectors)

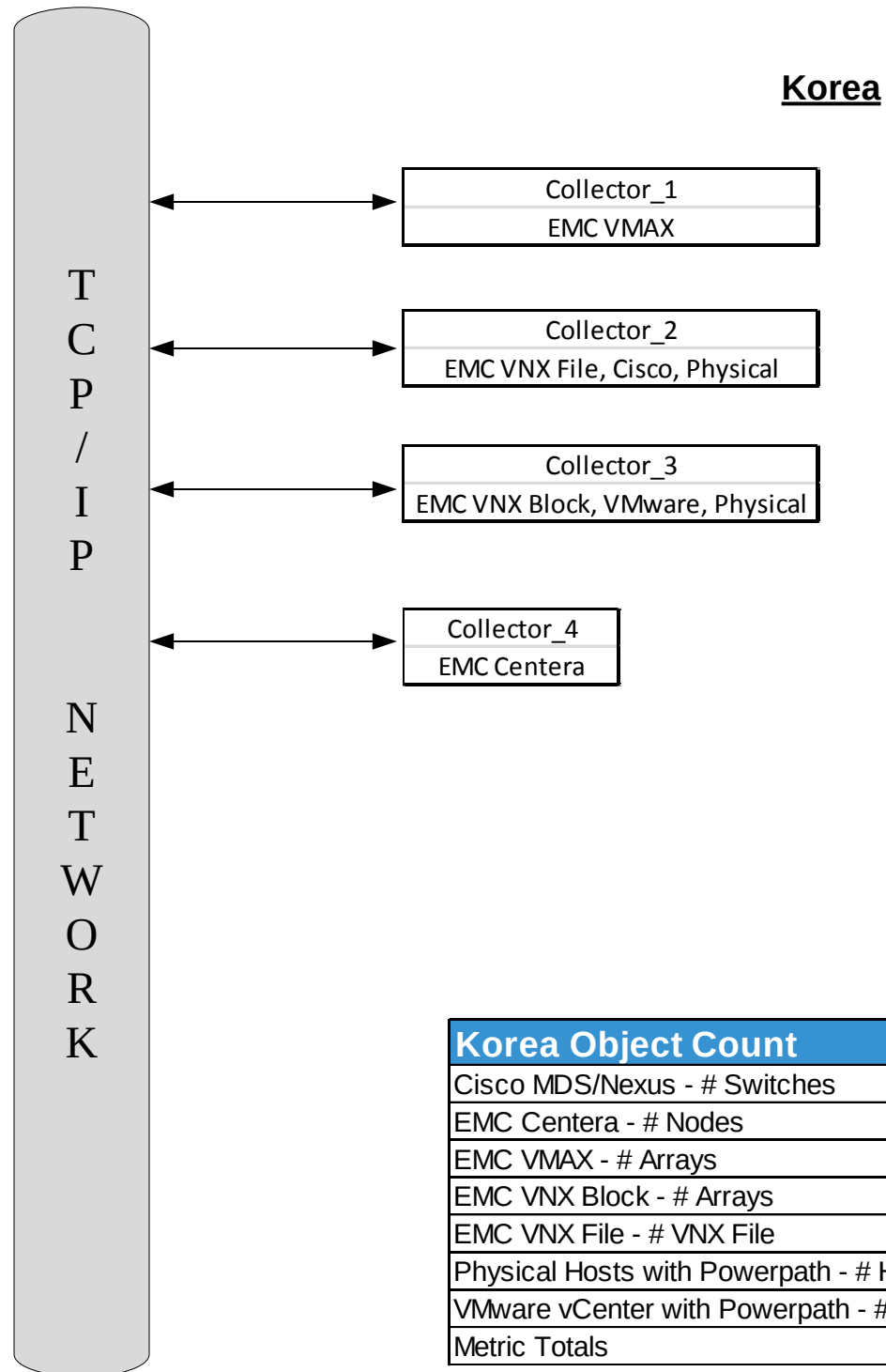


Japan Object Summary	Count
Cisco MDS/Nexus - # Switches	16
EMC Centera - # Nodes	28
EMC VMAX - # Arrays	3
EMC VNX File - # VNX File	5
Physical Hosts with Powerpath - # Hosts	330
VMware vCenter without Powerpath - # ESX hosts	38
Metric Totals	935180

Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack



EMC ViPR SRM 3.5 Design for CitiGroup (Korea Collectors)



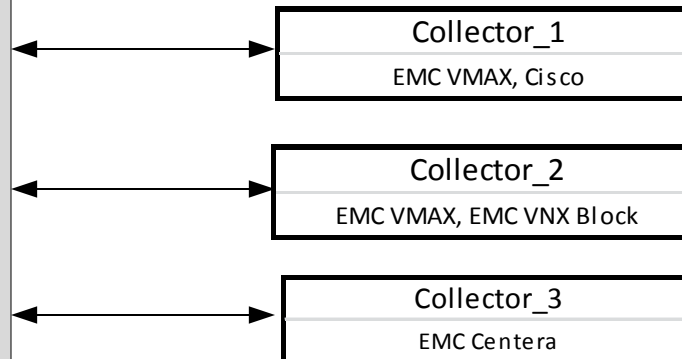
Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.

EMC ViPR SRM 3.5 Design for CitiGroup (Shanghai Collectors)

T
C
P
/
I
P

N
E
T
W
O
R
K

Shanghai

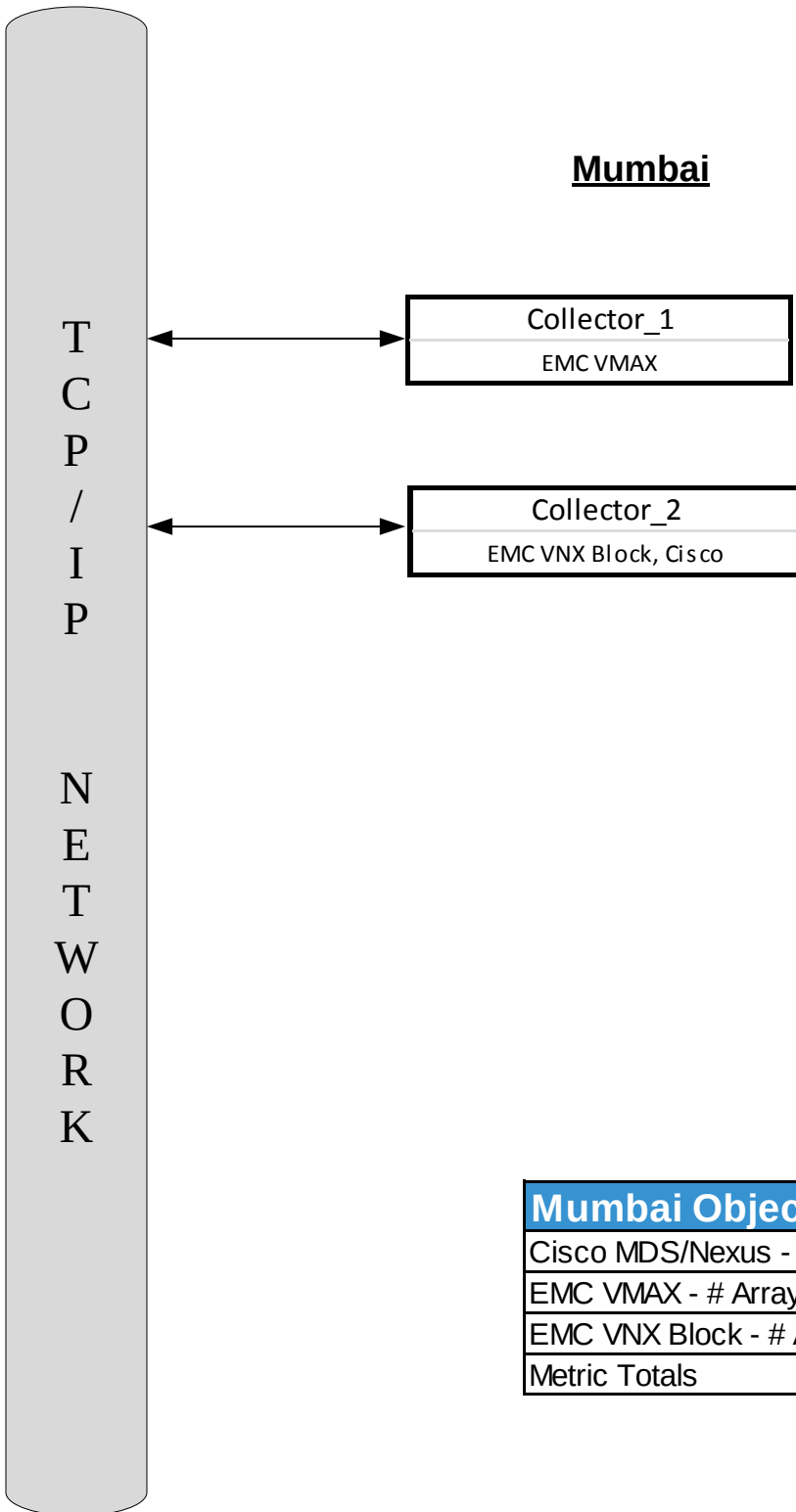


Shanghai Object Summary	Shanghai
Cisco MDS/Nexus - # Switches	4
EMC Centera - # Nodes	32
EMC VMAX - # Arrays	6
EMC VNX Block - # Arrays	1
Metric Totals	631899

Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.



EMC ViPR SRM 3.5 Design for CitiGroup (Mumbai Collectors)



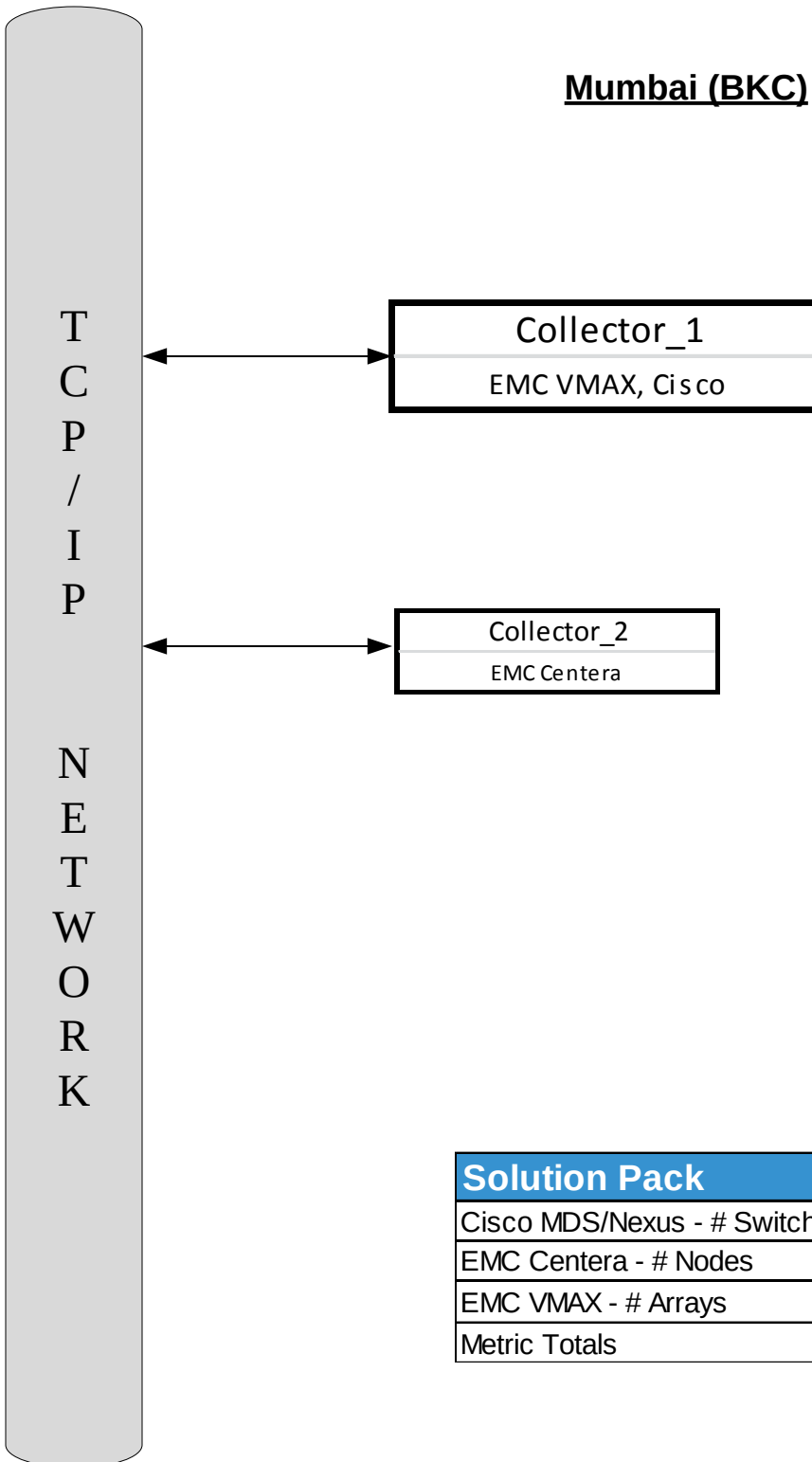
Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.

Mumbai Object Summary	Total
Cisco MDS/Nexus - # Switches	4
EMC VMAX - # Arrays	1
EMC VNX Block - # Arrays	1
Metric Totals	371880



EMC ViPR SRM 3.5 Design for CitiGroup (Mumbai (BKC) Collectors)

Mumbai (BKC)

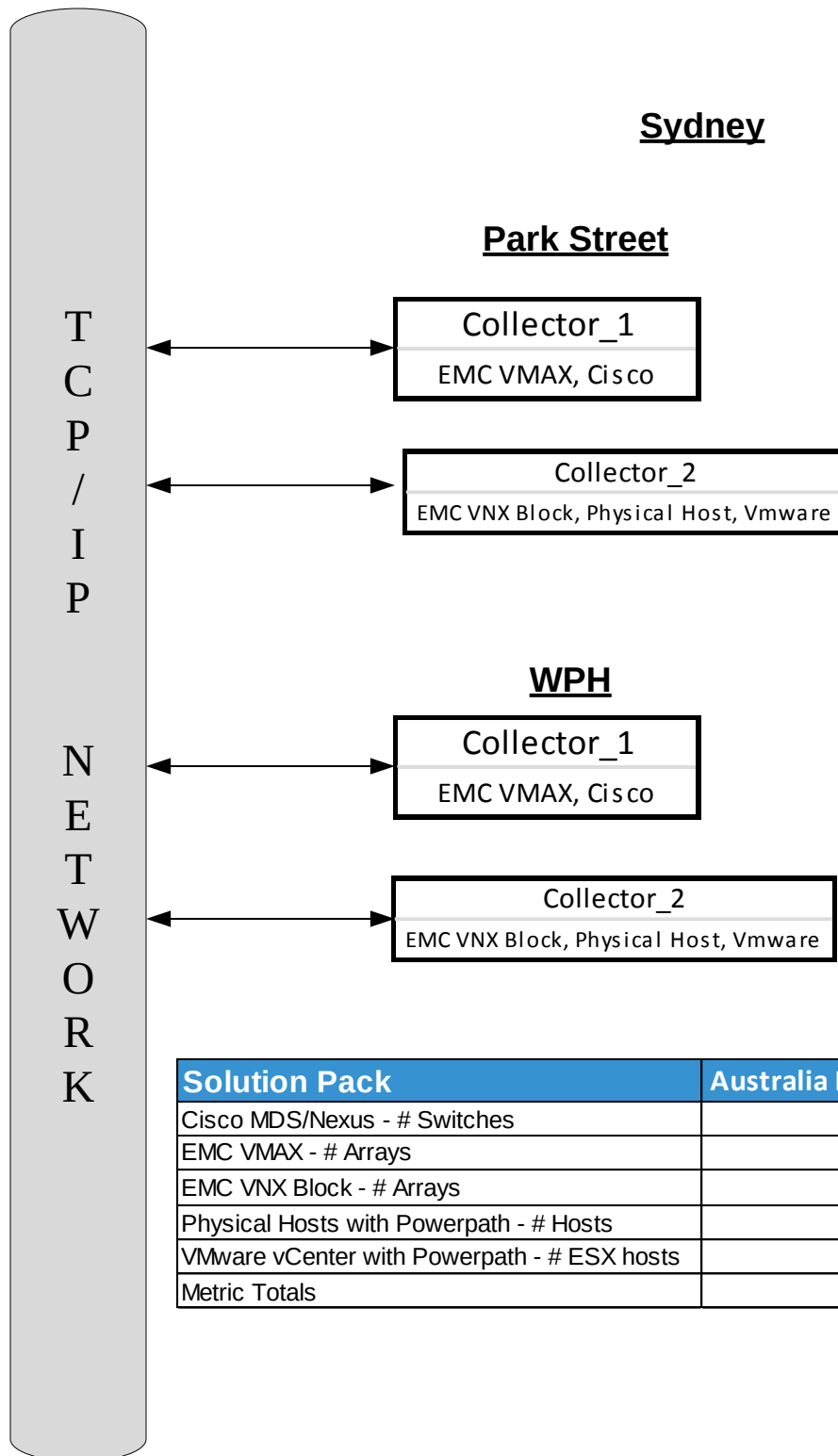


Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.

Solution Pack	Count
Cisco MDS/Nexus - # Switches	2
EMC Centera - # Nodes	14
EMC VMAX - # Arrays	1
Metric Totals	28858

EMC ViPR SRM 3.5 Design for CitiGroup (Sydney)

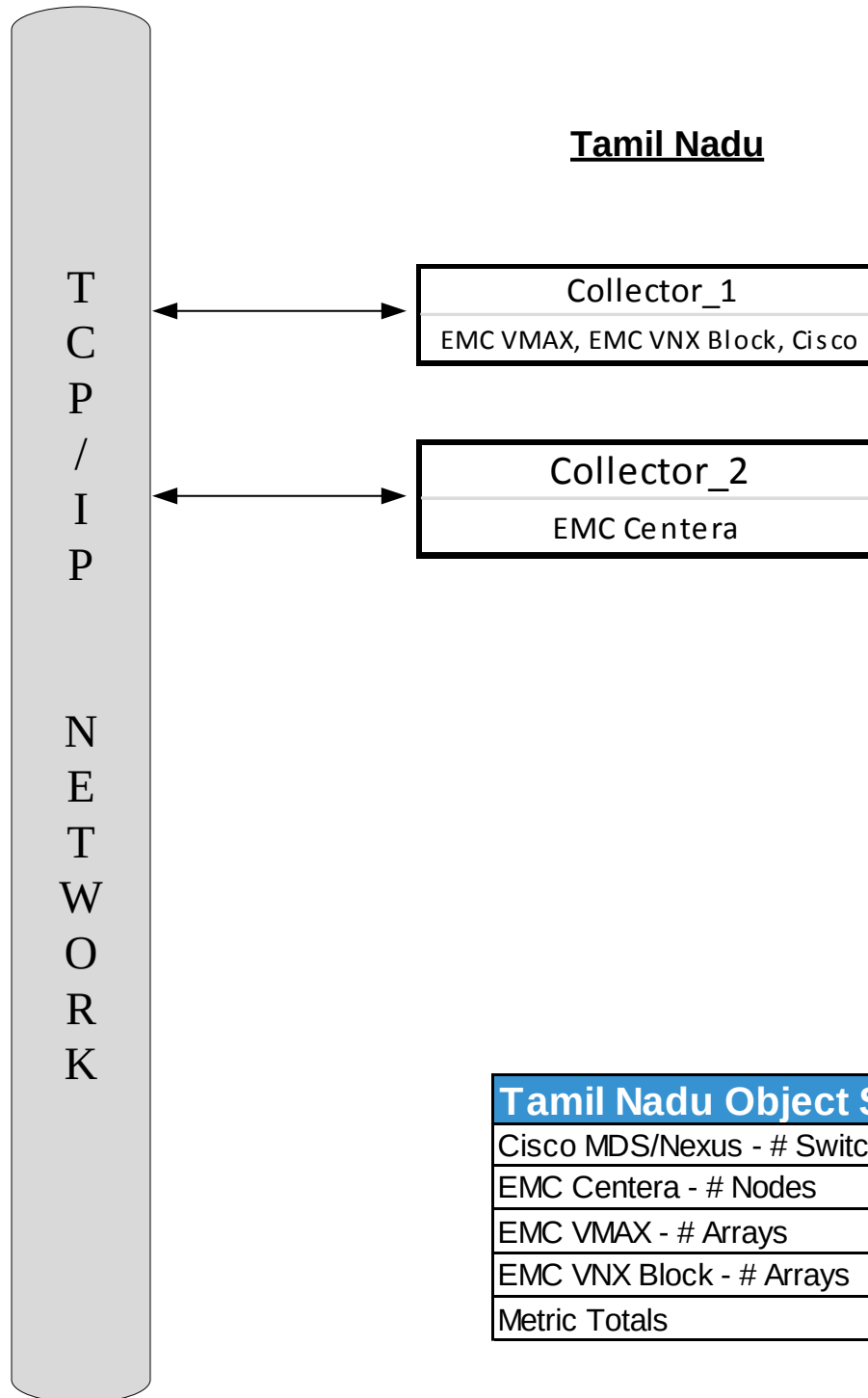
Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.





EMC ViPR SRM 3.5 Design for CitiGroup (Tamil Nadu Collectors)

Tamil Nadu



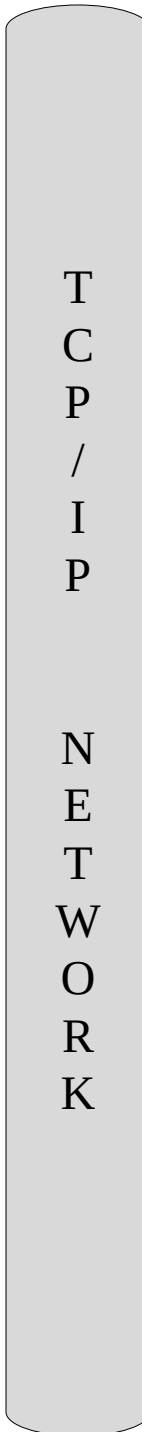
Tamil Nadu Object Summary	Total
Cisco MDS/Nexus - # Switches	4
EMC Centera - # Nodes	14
EMC VMAX - # Arrays	1
EMC VNX Block - # Arrays	1
Metric Totals	114245

Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.



**EMC ViPR SRM 3.5 Design
for CitiGroup
(Kao Hsiung Collectors)**

Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.



Kao Hsiung



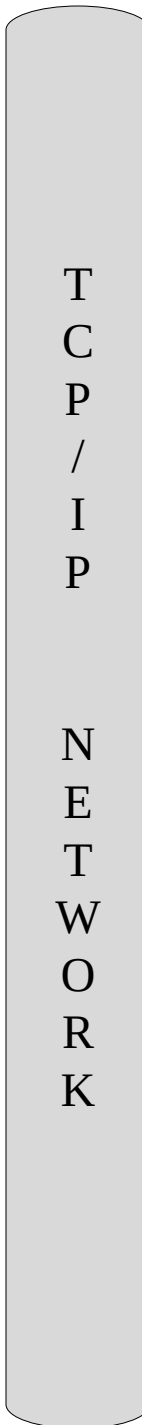
Kao Hsiung Object Summary	Total
Cisco MDS/Nexus - # Switches	4
EMC VMAX - # Arrays	1
Metric Totals	44947



EMC ViPR SRM 3.5 Design for CitiGroup (Ming Chuang Collectors)

Note1: The Ming Chuang collectors will also discover objects in Sung Zhu.

Note2: All hosts will have the EMC Watch4Net Health Solution Pack.



Ming Chuang

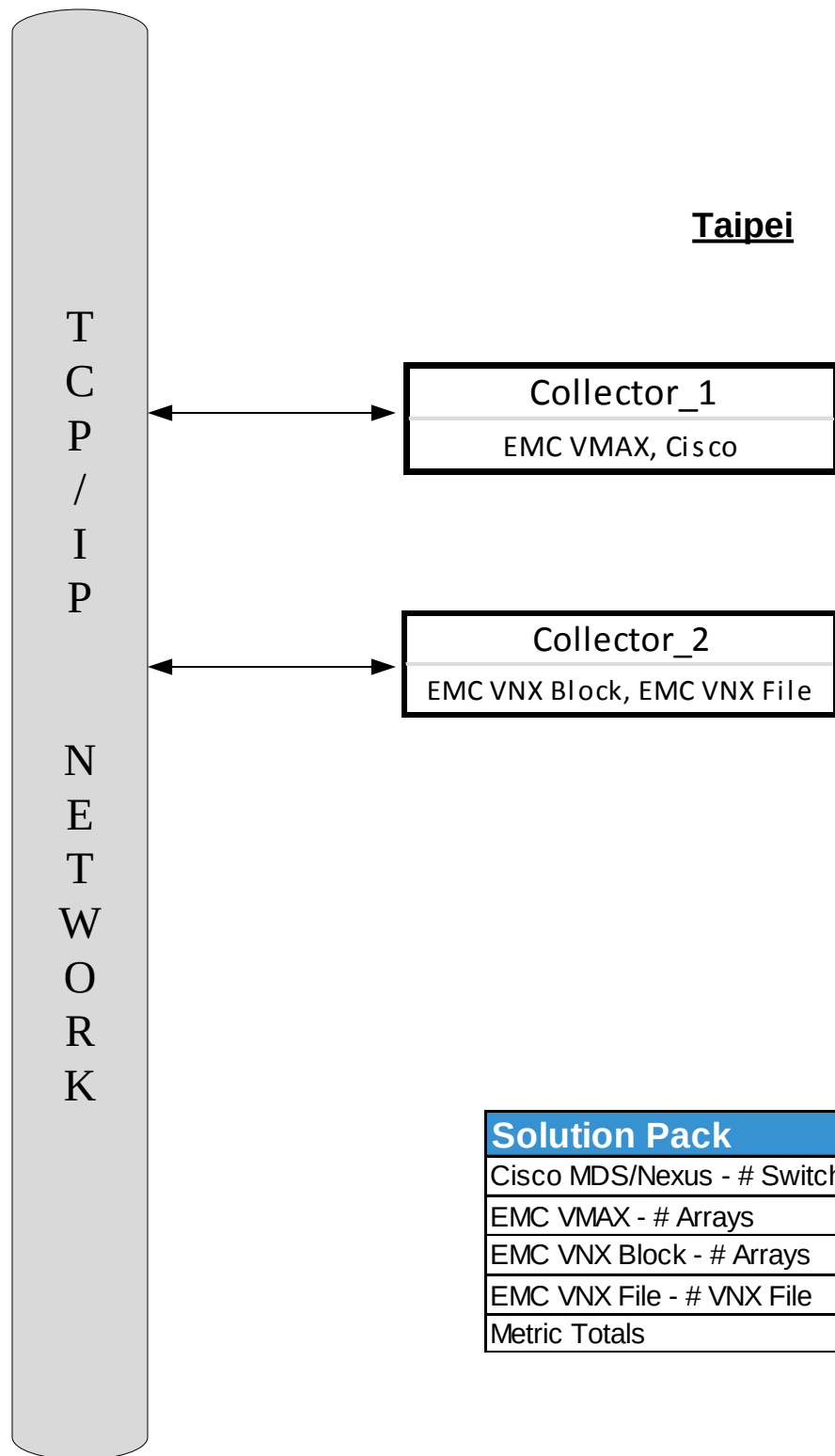


Solution Pack	MingChuang	SungZhu	Total
Cisco MDS/Nexus - # Switches	2	2	4
EMC VMAX - # Arrays	1		1
Metric Totals	34603	9817	44420



EMC ViPR SRM 3.5 Design for CitiGroup (Taipei Collectors)

Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.

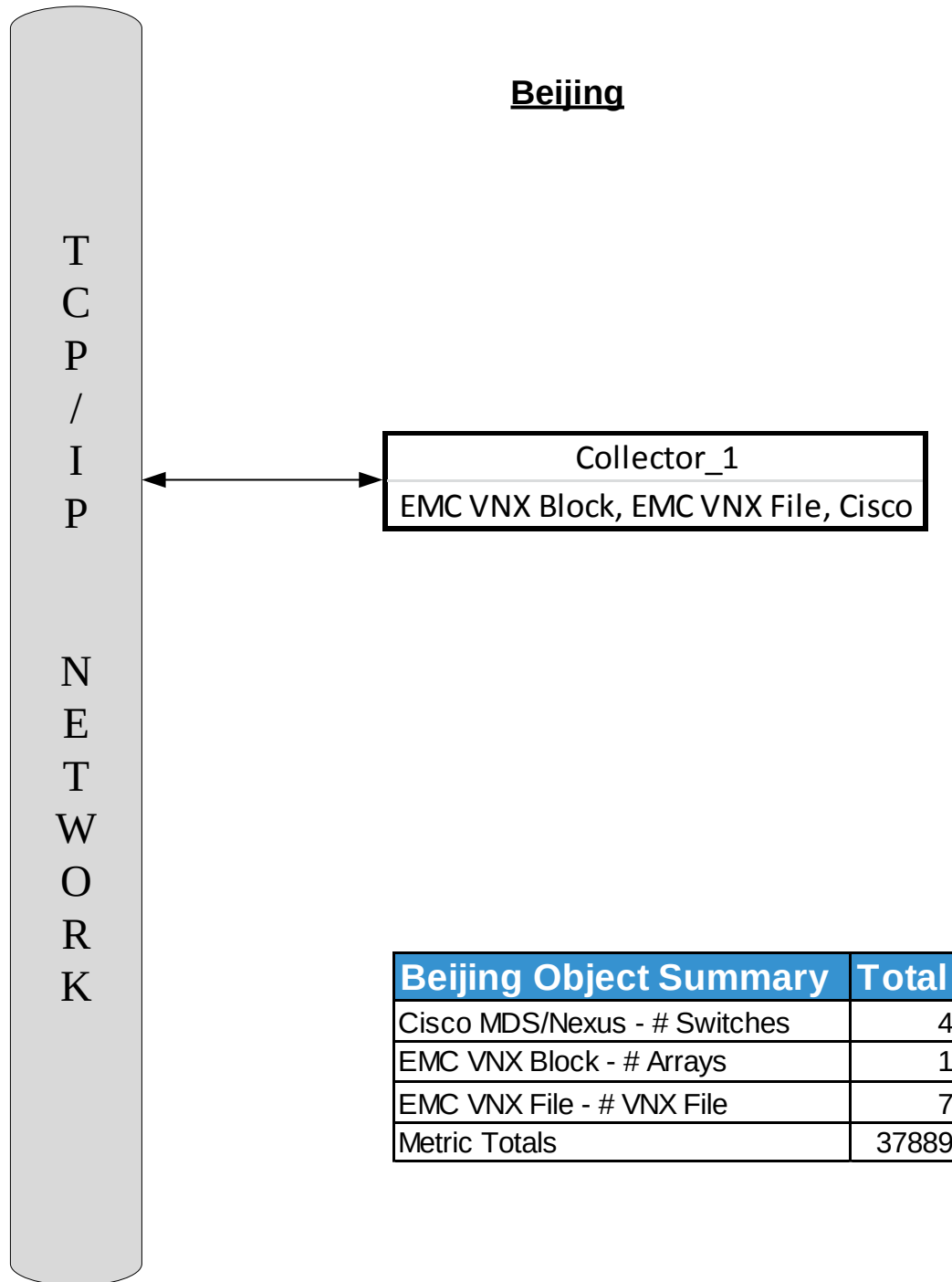


Solution Pack	Count
Cisco MDS/Nexus - # Switches	4
EMC VMAX - # Arrays	1
EMC VNX Block - # Arrays	1
EMC VNX File - # VNX File	3
Metric Totals	26225



EMC ViPR SRM 3.5 Design for CitiGroup (Beijing Collectors)

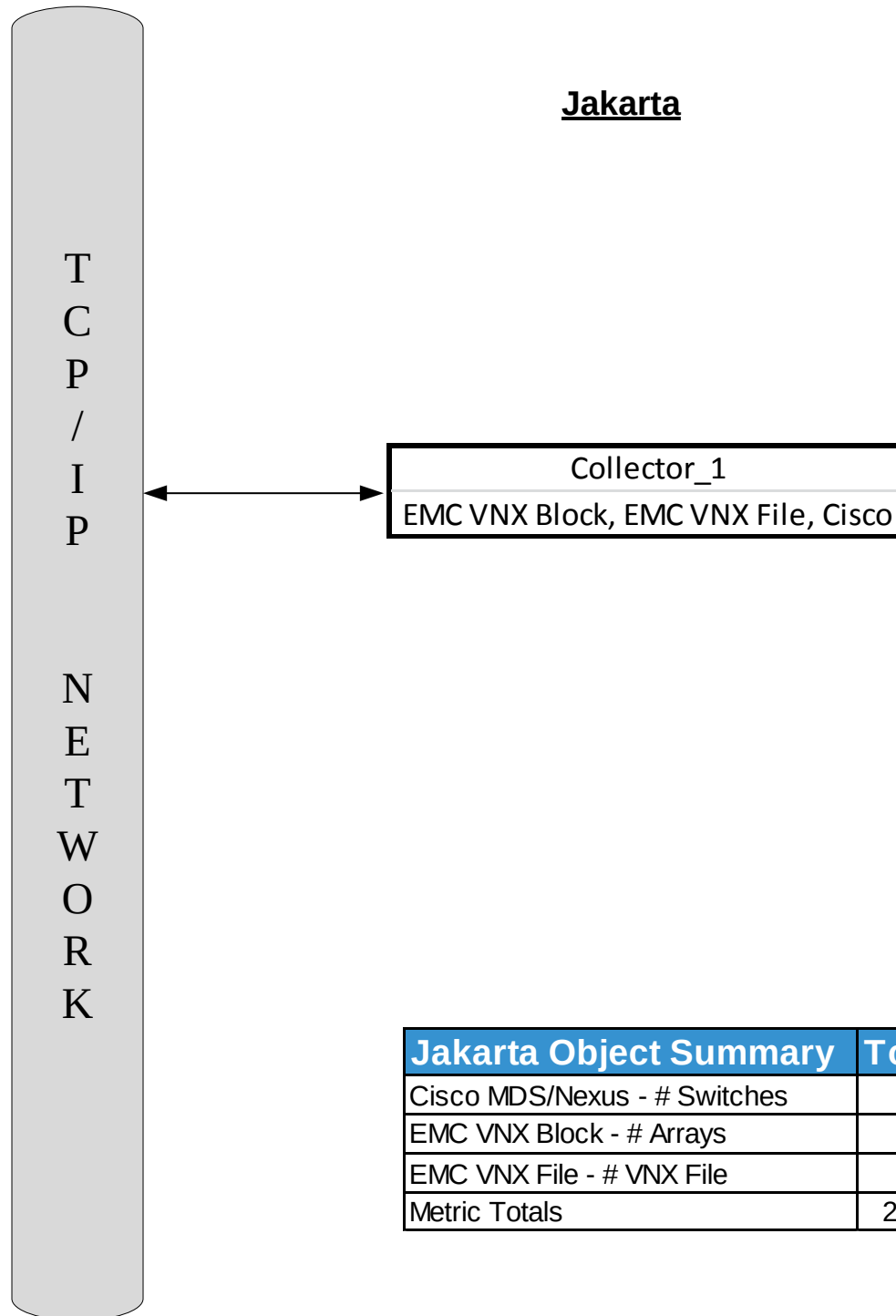
Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.





**EMC ViPR SRM 3.5 Design
for CitiGroup
(Jakarta Collectors)**

Jakarta

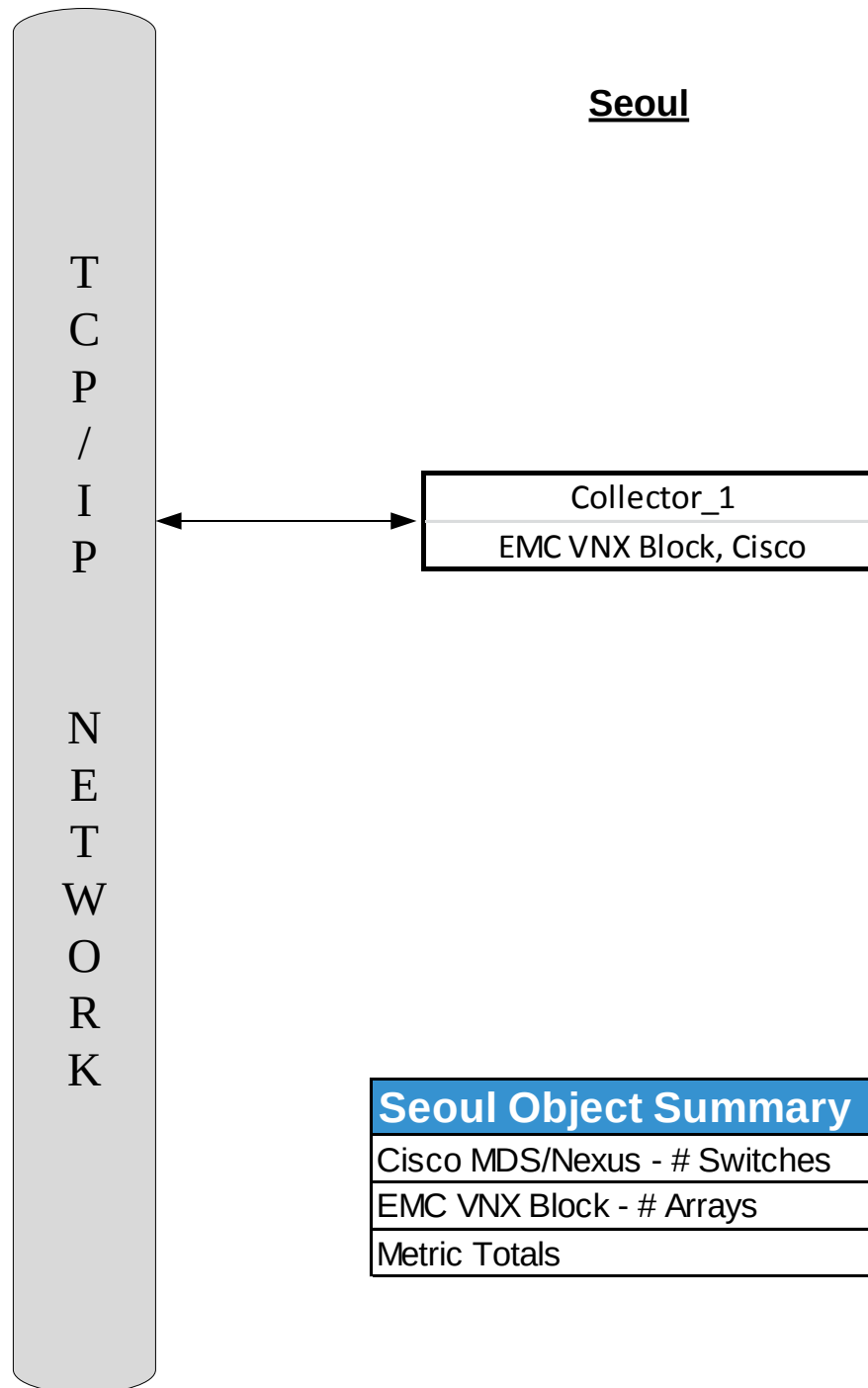


Jakarta Object Summary	Total
Cisco MDS/Nexus - # Switches	2
EMC VNX Block - # Arrays	1
EMC VNX File - # VNX File	3
Metric Totals	22962

Note: All hosts will have the EMC Watch4Net Health Solution Pack.



EMC ViPR SRM 3.5 Design for CitiGroup (Seoul Collectors)



Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.

Seoul Object Summary	Total
Cisco MDS/Nexus - # Switches	2
EMC VNX Block - # Arrays	1
Metric Totals	17601



EMC ViPR SRM 3.5 Design for CitiGroup (New Delhi Collectors)

T
C
P
/
I
P

N
E
T
W
O
R
K

New Delhi



New Delhi Object Summary	Total
Cisco MDS/Nexus - # Switches	2
EMC VNX Block - # Arrays	1
EMC VNX File - # VNX File	2
Metric Totals	16483

Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.



EMC ViPR SRM 3.5 Design for CitiGroup (Kuala Lumpur Collectors)

T
C
P
/
I
P

N
E
T
W
O
R
K

Kuala Lumpur

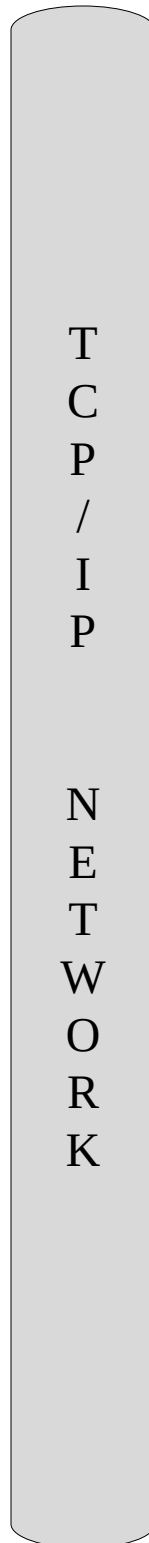


Kuala Lumpur Object Summary	Total
Cisco MDS/Nexus - # Switches	2
EMC VNX Block - # Arrays	1
EMC VNX File - # VNX File	2
Metric Totals	15839

Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.



EMC ViPR SRM 3.5 Design for CitiGroup (Bangkok Collectors)



Bangkok

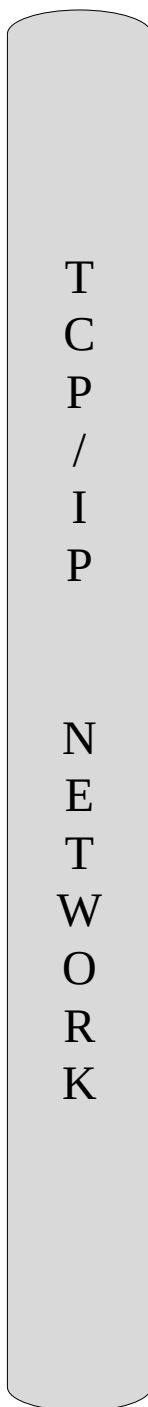


Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.

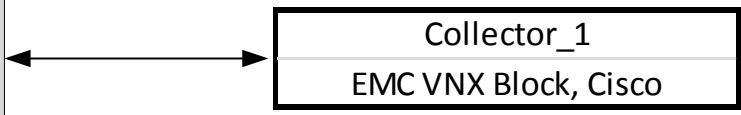
Bangkok Object Summary	Total
Cisco MDS/Nexus - # Switches	2
EMC VNX Block - # Arrays	1
Metric Totals	12532



EMC ViPR SRM 3.5 Design for CitiGroup (Chennai Collectors)



Chennai

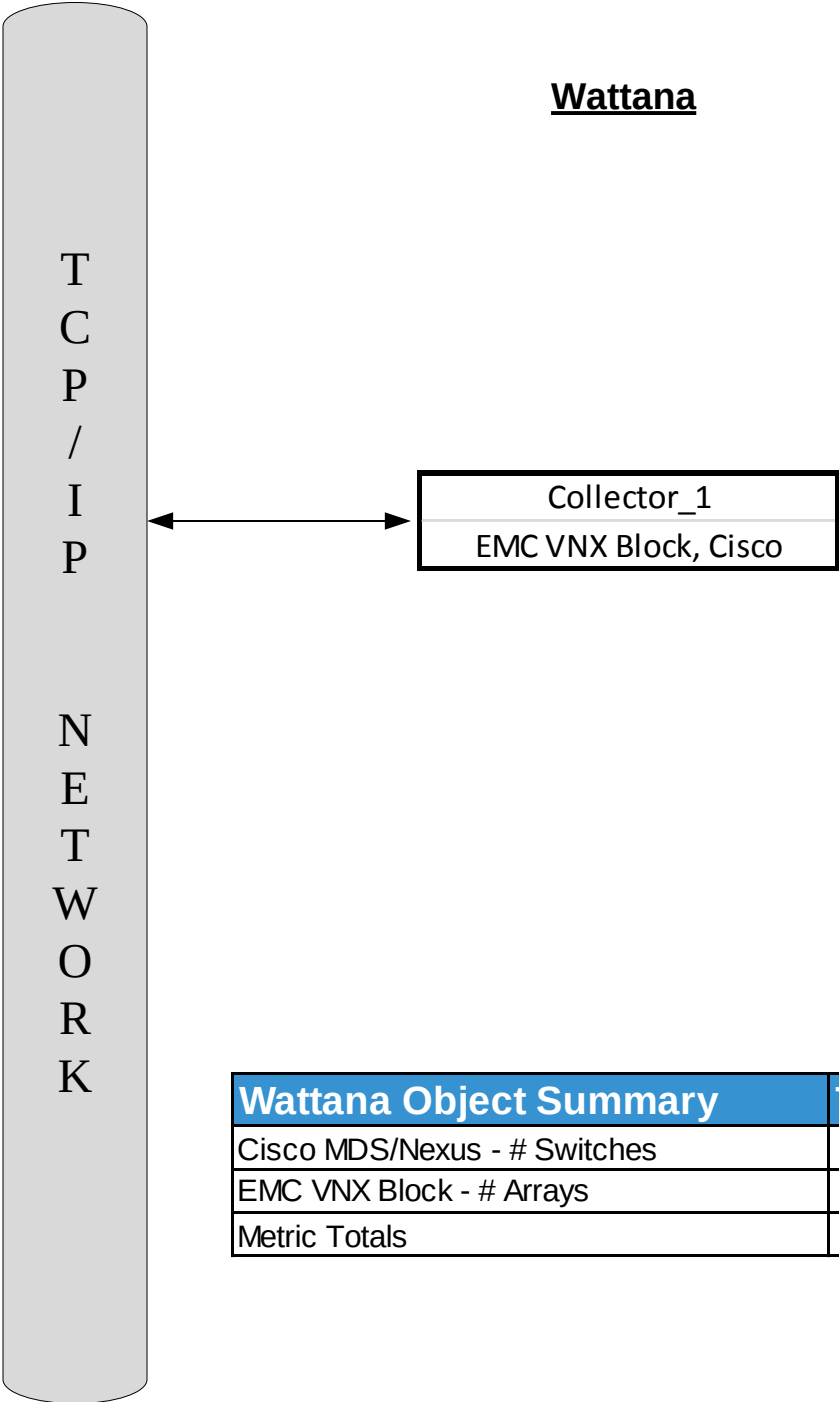


Note: All hosts will
have the EMC
Watch4Net Health
Solution Pack.

Chennai Object Summary	Total
Cisco MDS/Nexus - # Switches	2
EMC VNX Block - # Arrays	1
Metric Totals	12532



**EMC ViPR SRM 3.5 Design
for CitiGroup
(Wattana Collectors)**



Wattana Object Summary	Total
Cisco MDS/Nexus - # Switches	2
EMC VNX Block - # Arrays	1
Metric Totals	12532

Note: All hosts will have the EMC Watch4Net Health Solution Pack.

SRM Sizing

Solution Pack	Count	Total Metrics	Growth Factor	Projection
Cisco MDS/Nexus - # Ports and Interfaces	46286	4073168	20	4887802
Cisco MDS/Nexus - # Switches	173	342194	20	410633
EMC Centera - # Nodes	906	3624	20	4349
EMC Centera - # Storage Pools	561	2805	20	3366
EMC VMAX - # Arrays	65	41925	20	50310
EMC VMAX - # Directors	2036	91620	20	109944
EMC VMAX - # Disks	22534	247874	20	297449
EMC VMAX - # LUNs	485519	9224861	20	11069834
EMC VMAX - # Pools	69	621	20	746
EMC VNX Block - # Arrays	30	17610	20	21132
EMC VNX Block - # Disks	1383	24894	20	29873
EMC VNX Block - # LUNs	2691	83421	20	100106
EMC VNX File - # DataMovers	161	18837	20	22605
EMC VNX File - # FileShares	189	3024	20	3629
EMC VNX File - # VNX File	58	80040	20	96048
Physical Hosts with Powerpath - # FileSystems	536	4288	20	5146
Physical Hosts with Powerpath - # Hosts	2088	167040	20	200448
Physical Hosts with Powerpath - # Paths	4176	33408	20	40090
VMware vCenter with Powerpath - # ESX hosts	48	8496	20	10196
VMware vCenter with Powerpath - # Paths	149	1788	20	2146
VMware vCenter with Powerpath - # RDMS/DataStores	568	27264	20	32717
Metric Totals		14498802		17897492

EMC SRM Infrastructure Requirements

(1 of 2)

VM Purpose	Number of vCPU	Memory (GB)	OS Disk Space (GB)	Application Disk Space (GB)	Total Disk Space (GB)	Component/Collectors	Location	OS
Frontend_1	4 @3.0 GHZ	16	50	70	120	Front End 1	Tsuen Wan	Linux
Frontend_2	4 @3.0 GHZ	16	50	70	120	Front End 2	Tsuen Wan	Linux
Primary Backend	4 @3.0 GHZ	24	50	724	774	Compliance, Alerting, Topology, Default DB	Tsuen Wan	Linux
Secondary Backend	4 @3.0 GHZ	24	50	1,847	1,897	Data Base & Back End: DB1, DB2, DB3, DB4	Tsuen Wan	Linux
ScaleOut Backend_1	4 @3.0 GHZ	24	50	1,847	1,897	Data Base & Back End Scaleout_1: DB5, DB6, DB7, DB8	Tsuen Wan	Linux
ScaleOut Backend_2	4 @3.0 GHZ	24	50	1,847	1,897	Data Base & Back End Scaleout_2: DB9, DB10, DB11, DB12	Tsuen Wan	Linux
ScaleOut Backend_3	4 @3.0 GHZ	24	50	1,847	1,897	Data Base & Back End Scaleout_3: DB13, DB14, DB15, DB16	Tsuen Wan	Linux
ScaleOut Backend_4	4 @3.0 GHZ	24	50	1,847	1,897	Data Base & Back End Scaleout_4: DB17, DB18, DB19, DB20	Tsuen Wan	Linux
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, VMware vCenter, Cisco	Tsuen Wan	Linux
Collector_2	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX Block	Tsuen Wan	Linux
Collector_3	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco, Physical Host	Tsuen Wan	Linux
Collector_4	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX File	Tsuen Wan	Linux
Collector_5	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX File	Tsuen Wan	Linux
Collector_6	2 @2.6 GHZ	8	50	70	120	Centera	Tsuen Wan	Windows
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX Block, Cisco	Singapore	Linux
Collector_2	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX Block	Singapore	Linux
Collector_3	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX File	Singapore	Linux
Collector_4	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX File, Cisco	Singapore	Linux
Collector_5	2 @2.6 GHZ	8	50	70	120	Centera	Singapore	Windows
Collector_6	2 @2.6 GHZ	8	50	70	120	Centera	Singapore	Windows
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, VMware vCenter, Cisco	Chai Wan	Linux
Collector_2	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX Block	Chai Wan	Linux
Collector_3	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco, Physical Host	Chai Wan	Linux
Collector_4	4 @2.6 GHZ	16	50	150	200	EMC VNX File, Physical Host	Chai Wan	Linux
Collector_5	2 @2.6 GHZ	8	50	70	120	Centera	Chai Wan	Windows
Collector_6	2 @2.6 GHZ	8	50	70	120	Centera	Chai Wan	Windows

EMC SRM Infrastructure Requirements (2 of 2)

VM Purpose	Number of vCPU	Memory (GB)	OS Disk Space (GB)	Application Disk Space (GB)	Total Disk Space (GB)	Component/Collectors	Location	OS
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, VMware vCenter	Japan	Linux
Collector_2	4 @2.6 GHZ	16	50	150	200	EMC VNX File, Cisco, Physical Host	Japan	Linux
Collector_3	2 @2.6 GHZ	8	50	70	120	Centera	Japan	Windows
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco	Shanghai	Linux
Collector_2	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX Block	Shanghai	Linux
Collector_3	2 @ 2.6 GHZ	8	50	70	120	Centera	Shanghai	Windows
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX	Korea	Linux
Collector_2	4 @2.6 GHZ	16	50	150	200	EMC VNX File, Cisco, Physical Host	Korea	Linux
Collector_3	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, Vmware, Physical	Korea	Linux
Collector_4	2 @ 2.6 GHZ	8	50	70	120	Centera	Korea	Windows
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco	Sydney (ParkSt)	Linux
Collector_2	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, Physical Host, Vmware	Sydney (ParkSt)	Linux
Collector_3	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco	Sydney (WPH)	Linux
Collector_4	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, Physical Host, Vmware	Sydney (WPH)	Linux
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX	Mumbai	Linux
Collector_2	4 @2.6 GHZ	16	50	150	200	EMC VNXBlock, Cisco	Mumbai	Linux
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco	Mumbai (BKC)	Linux
Collector_2	2 @2.6 GHZ	8	50	70	120	Centera	Mumbai (BKC)	Windows
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, EMC VNX Block, Cisco	Tamil Nadu	Linux
Collector_2	2 @2.6 GHZ	8	50	70	120	Centera	Tamil Nadu	Windows
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco	Taipei	Linux
Collector_2	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, EMC VNX File	Taipei	Linux
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco	Kao Hsiung	Linux
Collector_1	4 @2.6 GHZ	24	50	150	200	EMC VMAX, Cisco	Ming Chuang	Linux
Collector_1	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, EMC VNX File, Cisco	Beijing	Linux
Collector_1	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, EMC VNX File, Cisco	Jakarta	Linux
Collector_1	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, EMC VNX File, Cisco	New Delhi	Linux
Collector_1	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, EMC VNX File, Cisco	Kuala Lumpor	Linux
Collector_1	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, Cisco	Seoul	Linux
Collector_1	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, Cisco	Bangkok	Linux
Collector_1	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, Cisco	Chennai	Linux
Collector_1	4 @2.6 GHZ	16	50	150	200	EMC VNX Block, Cisco	Wattana	Linux

EMC SRM Network Latency Requirements

Components	Maximum Network Latency
Between Frontend and Backend	5 ms
Between Backend and Collector	300 ms
Between VMAX Collector host and Solutions Enabler or Unisphere host	20 ms ²
Between VNX Collector host and VNX provider host	20 ms (2)
Between RSA (Host) Collector and Host	20 ms (2)
Between VMware Collector and VCenter	20 ms (2)
Between SNMP collector and Brocade Switch	100 ms

² If latency between the provider and the collector is more than 20 ms, consider increasing the polling interval or decreasing the number of configuration items per collector.

SRM Firewall Ports

Source	Protocol	Ports	Direction	Target	Notes
*	TCP	58080	<--Bi-Directional -->	UI Portal Host	App access via Web
UI Portal Host	TCP	389	<--Bi-Directional -->	LDAP Host	LDAP Authentication
All Collector Hosts	TCP	2020	Out -->	Backend 1-Primary Database Host	Load Balancer
All Collector Hosts	TCP	2001	<--Bi-Directional -->	Both Backend-Database Hosts	Control Interface
All Collector Hosts	TCP	2010	Out -->	Backend 1-Primary Database Host	Alerting
VNX Collector Hosts	TCP/UDP	2040	Out -->	Backend 1-Primary Database Host	VNX Alert Consolidation
All Collector Hosts	TCP	48443	<--Bi-Directional -->	Backend 1-Primary Database Host	TMS Service
All Collector Hosts	TCP	52001	<-- In	UI Portal Host, Both Backend-Database Hosts	Event Processing
All Collector Hosts	TCP	52004	Out -->	Backend 1-Primary Database Host	Event Processing
Generic RSC Collector	TCP	5985/5986	<--Bi-Directional -->	Windows Host to be discovered	WS-MAN
Generic RSC Collector	TCP	22	<--Bi-Directional -->	UNIX Host to be discovered	ssh
Vmware Collector	TCP	443	<--Bi-Directional -->	vCenter Host to be discovered	https
Cisco Collector	UDP	161	<--Bi-Directional -->	Cisco switches to be discovered	SNMP
VNX File Collector	TCP	80/443	<--Bi-Directional -->	VNX Control Stations	http/https
VNX Block Collector	TCP	22	<--Bi-Directional -->	VNX SPA/SPB	ssh
VMAX Collector	TCP	2707	<--Bi-Directional -->	Remote SYMAPI Servers	Remote SYMAPI Calls
Centera Collector	TCP	3218/3682/7069/8069	<--Bi-Directional -->	Centera Nodes	SDK/Centera API Calls
NetApp Collector	TCP	22	<--Bi-Directional -->	NetApp Node	ssh
HDS Collector	TCP	5988/5989	<--Bi-Directional -->	HDS Array Host	SMI-S
HDS Collector	TCP	1099/51099/2000/2001/51100	<--Bi-Directional -->	HDS Array Host	Text Collector
IBM XIV Collector	TCP	5988/5989	<--Bi-Directional -->	IBM CIM Agent Host	IBM CIM

EMC Storage Prerequisites

EMC VMAX SolutionPack							
Support List:	DMX-3, DMX-4, DMX-4 950, VMAX, VMAX SE series						
Requirements:	Solutions Enabler 7.6.2.8 or higher						
	Unisphere for VMAX 1.6.2 or higher (Unisphere for VMAX must be setup to collect performance data)						
	SMI-S Provider 4.6.2 for LUN Performance Metrics						
	Symmetrix communications occur via GateKeepers. The two options available are outlined below)						
	(Remote Mode - Option 1) - Assign 2 additional gatekeepers to existing SYMAPI server.						
	SRM will utilize the existing SYMAPI Server to communicate with the Symmetrix Devices via SYMCLI.						
	No additional software will need to be installed on the SYMAPI server.						
	In the event that the SYMAPI Server uses a "nethost" file, ensure the collector hostname or IP Address is in it. For example, "vm-2981-564 *"						
	(Local Mode - Option 2) - Assign 2 additional gatekeepers to existing SYMAPI server.						
	Install the VMAX Collector on the SYMAPI server. A unique server can also be used if desired.						
	If using ACL's - SRM will run the SYMCLI commands under a user called "apg".						
	The "apg" user requires permissions to access the storapid daemon in the daemon_users file.						
Info Needed:	Array Serial Number, IP Address for Unisphere for VMAX Server, Unisphere Credentials, SYMCLI Credentials if using ACL's						
EMC VNX SolutionPack							
Support List:	Flare Code 4.30; 5.31 or higher						
	Used with CLARiiON, VNX1 and VNX2 Models						
	VNXe OE 3.0 (Block and File)						
	Used with second generation VNXe modules as of VNXe3200						
	First generation VNXe models such as VNXe3100, VNXe3150 and VNXe3300 are not supported.						
	DART 5.6 and 6.0; VNX OE for File 7.0 or later						
	Used with Celerra, VNX1 and VNX2 models						
Requirements:	Naviseccli (The version should match the Flare code level.)						
	Performance Statistics need to be enabled on SPA & SPB						
	User Account (service account) with read only privileges (Block & File Accounts)						
Info Needed:	Array Serial Numbers, IP Addresses SPA, SPB, Control Station(s), Credentials						
EMC Centera SolutionPack							
Support List:							
Requirements:	Collector must be installed on Windows 2008, 2008R2						
	Centera 4.3 must be installed on collector server						
	User Account (Service Account) with monitor role privileges						
Info Needed:	Hostname or IP Address of Management Node, Credentials						
EMC XtremIO SolutionPack							
Support List:	XtremIO 2.4 and later						
Info Needed:	Unique friendly name for XIO array						
	Management IP Address or hostname						
	Username (Read-only account) and Password						

Third Party Storage Prerequisites

IBM XIV SolutionPack							
Support List:	IBM XIV						
Requirements:	The XIV CIM Agent must be available (In v10.1.0 and higher, it is preinstalled & enabled on the admin module)						
	User Account (Service Account).						
Info Needed:	(3) Management IP Addresses, Credentials						
Hitachi SolutionPack							
Support List:	AMS200, AMS2100, USP and USP-V, HUS and VSP						
Requirements:	Hitachi Command Suite 7.4.1 or higher (Full license; core license is not adequate.)						
	CIM/WBEM features must be enabled in Hitachi Device Manager						
	User Account with admin privileges on the Hitachi Device Manager system						
Info Needed:	Array name or IP Address for the Hitachi Device Manager, Credentials						
NetApp Filer SolutionPack							
Support List:	NetApp Filer 7-Mode on Ontap v7 or higher						
	NetApp Filer Cluster-Mode on Ontap v8 or higher						
	Note: The cluster management IP must be provided during C-Mode Filer discovery						
Requirements:	SRM utilizes NetApp CLI via SSH to communicate to NetApp arrays. SSH v2 must be enabled						
	SSH connection to the NetApp devices with the following role : login-ssh, cli-stats*, cli-snap*, cli-aggr*						
	cli-vol*, cli-disk*, cli-environment, cli-nfs*, cli-cifs*, cli-df, cli-sysconfig, cli-ifconfig, cli-version						
	C-Mode requires admin privilege for user to run commands of type 'run -node *' and 'statistics samples delete W4N*'						
	A full list of the CLI Commands can be provided as needed for proper user account access creation						
	Polling must be done to the real NetApp Filer (not a vFiler)						
Info Needed:	NetApp filer Mode, Hostname, IP Address, Credentials						

Cisco FC Switch Prerequisites

Cisco MDS/Nexus Switch SolutionPack						
Support List:	Cisco MDS (9xxx)					
	Cisco ONS (1520x)					
	Cisco Nexus (5548, 1000V)					
Requirements:	Supported MIBS:					
	CISCO-FLASH-MIB					
	CISCO-NS-MIB					
	CISCO-DM-MIB					
	CISCO-ENTITY-SENSOR-MIB					
	ENTITY-MIB					
	CISCO-FC-FE-MIB					
	IF-MIB					
	CISCO-ENTITY-FRU-CONTROL-MIB					
	CISCO-VSAN-MIB					
	CISCO-ZS-MIB					
	CISCO-SYSTEM-EXT-MIB					
	SNMPv2-MIB					
	CISCO-FCS-MIB					
	CISCO-FEATURE-CONTROL-MIB					
	SNMP must be enabled/configured. SRM Supports v1 ,v2C and v3 (SHA auth & AES128 privacy only)					

Host Prerequisites

VMware vCenter SolutionPack						
Support List:	VMware vCenter Server 4.1 or higher					
	Vmware ESX 4.1, 5.0, 5.1					
Requirements:	vCenter User Account - Read Only Account with Browse Datastore and all Storage View privileges					
	If PowerPath / VE is running and metrics are desired, PP /VE 5.8 or later is required					
Info Needed:	vCenter Hostname or IP Address, Credentials					
EMC Physical Hosts						
Support List:	HPUX 11iv1 11.11, HPUX11iv2 11.23, HPUXiv3 11.31					
	IBM AIX 5.1, 5.2, 5.3, 6.1, 7.1					
	Linux RHEL AS/ES 4.x, 5.x, 6.x					
	Linux SUSE es9, ES9.3, ES10, ES11					
	Solaris 9, 10, 11, SVM, VxVM, zfs					
	Microsoft Windows 2003, 2003 R2 SP2, 2003 SP2					
	Microsoft Windows 2008 Core, 2008 SP1, 2008 SP2, 2008 R2					
	Microsoft Windows 2012					
	Standard, Enterprise and Datacenter editions					
Requirements:	Host Prerequisites: (PowerPath is only needed if PowerPath metrics are desired)					
	HPUX - PowerPath 5.2, INQ 7.6.1 or higher, perl interpreter 5.6.1 or higher					
	IBM AIX - PowerPath 5.7b194, INQ 7.6.1 or higher, perl interpreter 5.6.1 or higher					
	RHEL & SUSE Linux - PowerPath 5.7, INQ 7.6.1.0 or higher, perl interpreter 5.6.1 or higher					
	Solaris - PowerPath 5.5 P02 HF02, INQ 7.6.1.0 or higher, perl interpreter 5.6.1 or higher					
	Windows - PowerPath 5.7, Powershell 2.0, INQ 7.6.1.0 (Optional)					
	Linux / Unix host connections will utilize SSH. A user account with sudo access is required					
	Sudo user needs root privileges to run the following commands: inq, powermt, sar, mpstat, vgdisplay					
	vxdisk (Solaris)					
	dmidecode, vgs, lvdisplay (Linux)					
	Windows hosts connections will utilize WinRM & PowerShell. PowerShell 2.0 or higher is required					
	WinRM Execution Policy should be set to unrestricted :set-executionpolicy unrestricted					
Info Needed:	HostName or IP Address, OS Version, Credentials					

Application Prerequisites

[illegible]

Location Details (1 of 14)

Tsuen Wan			
Serial Number	Category	Model	Microcode
CK200121000352	Avamar	AVMRACKG4	6.0.1.65
1342169475782BCB5C	Avamar	456-100-309	N/A
FCNNX110300010	Celerra	NS482-C	6.0.40.8
FCNCX110207837	Celerra	NS480-AUX	04.30.000.5.523
CK200111900376	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200111900370	Centera	CNRPTAGKIT	4.2.0-3881-0-0
CK200132400201	Centera	CNRPTAGKIT	4.2.0-3881-0-0
CK200132400193	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CFK50113226608	Connectrix	EC-1700-C	5.2(1)
CFK50114728187	Connectrix	EC-1700-C	5.2(1)
3FZ0738179	Data Domain	DD860-CTX-B	N/A
1FZ1526020	Data Domain	DD890-CTL-B	5.1.1.0
1FZ1537094	Data Domain	DD890-CTL-B	5.1.1.0
3FZ1739022	Data Domain	DD990-CTL-B	5.2.1.0
NNG04105210086	RecoverPoint	RP-HW-1U-GEN4	3.2 SP3
NNG04105210088	RecoverPoint	RP-HW-1U-GEN4	3.2 SP3
FOX1521H7TB	Switch	MDS-9513	5.2(1)
FOX1546G7UR	Switch	MDS-9513	5.2(8c)
FOX1546G7U7	Switch	MDS-9513	5.2(1)
JAF121122WW	Switch	MDS-9134	5.0(1a)
FOX1527GD4B	Switch	MDS-9513	5.2(1)
FOX1544GL3D	Switch	MDS-9513	5.2(1)
FOX1517GC6A	Switch	MDS-9513	5.2(1)
FOX1517GC5X	Switch	MDS-9513	5.2(1)
FOX1726S02S	Switch	MDS-9513	5.2(8b)
FOX1553GK9K	Switch	MDS-9513	5.2(1)
FOX1518GSJS	Switch	MDS-9513	5.2(1)
FOX1546G7U9	Switch	MDS-9513	5.2(8c)
JAF143573VV	Switch	MDS-9134	5.0(1a)
FOX1606GYXT	Switch	MDS-9513	5.2(1)
FOX1612GK5J	Switch	MDS-9513	5.2(1)
FOX1553GKA3	Switch	MDS-9513	5.2(1)
FOX1517GC6B	Switch	MDS-9513	5.2(1)
FOX1550G7JF	Switch	MDS-9513	5.2(1)
FOX1517GC5U	Switch	MDS-9513	5.2(1)
FOX1521H7TC	Switch	MDS-9513	5.2(1)
FOX1726S02X	Switch	MDS-9513	5.2(8b)
FOX1544GAVC	Switch	MDS-9513	5.2(1)
CK292602398	Symmetrix	SB-3Y	5876.229.145
CK295700517	Symmetrix	SD-3Y	5876.229.145
CK290103014	Symmetrix	DMX4-SYS24-3Y	5773.176.124
CN498700157	Symmetrix	BA-SYS1E	5876.229.145
CK292604132	Symmetrix	SB-3Y	5876.229.145
CK295700527	Symmetrix	SD-3Y	5876.229.145
CK292603631	Symmetrix	SB-3Y	5876.229.145
CK292604047	Symmetrix	SB-3Y	5876.229.145
CK292603629	Symmetrix	SB-3Y	5876.229.145
CK292603609	Symmetrix	SB-3Y	5876.229.145
CN492600392	Symmetrix	SB-3Y	5876.229.145
CK295700611	Symmetrix	SD-3Y	5876.229.145
CK298701068	Symmetrix	BA-SYS1E	5876.229.145
CN492600150	Symmetrix	SB-3Y	5876.229.145
FCN00122200039	VNX	VNX7500SPE	05.32.000.5.207
CKM00133700071	VNX	VNXB76DP25	05.33.000.5.038
FCN00122300103	VNX	VNX7500SPE	05.32.000.5.207
CKM00133700074	VNX	VNXB76DP25	05.33.000.5.038

Location Details (2of 14)

Singapore			
Serial Number	Category	Model	Microcode
CK200102100890	Celerra	NS482-A	5.6.43.8
FCNNX105200040	Celerra	NS4824-C	6.0.70.4
FCNCX105200401	Celerra	NS480-AUX	04.30.000.5.526
CK200110500818	Celerra	NS4824-C	6.0.70.4
CKM00110300800	Celerra	NS480-AUX	04.30.000.5.526
CKM00104400148	Celerra	NS480-AUX	04.30.000.5.526
CKM00101800043	Celerra	NS480-AUX	04.30.000.5.508
CK200063201758	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200093700031	Centera	CNRPTAGKIT	4.2.0-3881-0-0
CK200102001047	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200104501838	Centera	CNR4N2FBAG4LP	4.2.0-3881-0-0
CK200093500215	Centera	CNR4N1MBAG4LP	4.2.0-3881-0-0
CK200123400047	Centera	CNR4N2FBAG4LP	4.2.0-3881-0-0
CK200061600177	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200063201756	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200091800354	Centera	CNR4N1FBAG4LP	4.2.0-3881-0-0
CK200105000736	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200111601578	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200064700682	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200105000745	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200111601566	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200061201368	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
APM00073803478	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200081300176	Centera	CNR4N7FBAG4LP	4.2.0-3881-0-0
CK200131100275	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200132200520	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200092500284	Centera	CNR4N1MBAG4LP	4.2.0-3881-0-0
CK200131100274	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200093700033	Centera	CNR4N1MBAG4LP	4.2.0-3881-0-0
CK200132200513	Centera	CNRPTAGKIT	4.2.0-3881-0-0
SL7F1110100011	CLARiiON	AX4-5F	02.23.050.5.711
CKM00110400276	CLARiiON	CX4-120C	04.30.000.5.526

Location Details (3of 14)

Singapore			
Serial Number	Category	Model	Microcode
FCN00113601004	CLARiiON	CX4-120C	04.30.000.5.526
CK200063500092	CLARiiON	CX700	02.19.700.5.034
CK200071500503	CLARiiON	CX3-80	03.26.080.5.031
SL7FJ110200009	CLARiiON	AX4-5F	02.23.050.5.711
SL7FJ110200001	CLARiiON	AX4-5F	02.23.050.5.711
SL7E1093800009	CLARiiON	AX4-5F	02.23.050.5.711
CK200081900324	CLARiiON	CX3-80	03.26.080.5.031
FCNMM093600036	CLARiiON	AX4-5F	02.23.050.5.711
SL7F1110100001	CLARiiON	AX4-5F	02.23.050.5.711
CKM00093500447	CLARiiON	CX4-120C	04.30.000.5.524
SL7E1093800029	CLARiiON	AX4-5F	02.23.050.5.711
SL7FJ110200010	CLARiiON	AX4-5F	02.23.050.5.711
FCNMM101400150	CLARiiON	AX4-5F	02.23.050.5.711
SL7FJ110200003	CLARiiON	AX4-5F	02.23.050.5.711
CK200084700541	CLARiiON	CX3-10C-FD	03.26.010.5.020
SL7E1093800018	CLARiiON	AX4-5F	02.23.050.5.711
CK200081900323	CLARiiON	CX3-80	03.26.080.5.031
CK200072400943	CLARiiON	CX3-80	03.26.080.5.031
MC5I05549N	Connectrix	ED-140M	9.01.00
CFK50110122619	Connectrix	EC-1700-C	4.2(7e)
MC5I07003N	Connectrix	ED-140M	9.06.02
JAF1442U093	Connectrix	MDS-9124	5.2(8c)
MC5I06674N	Connectrix	ED-140M	N/A
MC5T01519N	Connectrix	EC-1500-M	9.00.00
MC5I06722N	Connectrix	ED-140M	9.06.02
JAF14091631	Connectrix	MDS-9124	5.2(8c)
MC5CN06573	Connectrix	EC-1200	7.0.1
MC5T01513N	Connectrix	EC-1500-M	N/A
MC5T01404N	Connectrix	EC-1500-M	9.01.00
MC5TN02890	Connectrix	EC-1500-M	N/A
CFK50113727091	Connectrix	EC-1700-C	4.2(1a)
MYS78074900020	Connectrix	EC-1700-C	N/A
CFK50113727082	Connectrix	EC-1700-C	4.2(1a)
MC5TN03607	Connectrix	EC-1500-M	5771.100.108
MC5TN02888	Connectrix	EC-1500-M	N/A
JAF1449V757	Connectrix	MDS-9124	5.2(8b)
MC5IN04244	Connectrix	ED-140M	9.09.07
MC5T01717N	Connectrix	EC-1500-M	9.06.02
MC5I06682N	Connectrix	ED-140M	9.09.07
MYS78082000015	Connectrix	EC-1700-C	3.3(2)

Location Details (4 of 14)

Singapore			
Serial Number	Category	Model	Microcode
MYS78070200005	Connectrix	EC-1700-C	N/A
MC5I06719N	Connectrix	ED-140M	9.06.02
MC5T01401N	Connectrix	EC-1500-M	N/A
JAF1404061Y	Connectrix	MDS-9124	5.2(8c)
CFK50112025179	Connectrix	EC-1700-C	4.2(1a)
MC5I05751N	Connectrix	ED-140M	9.09.07
MC5I05768N	Connectrix	ED-140M	9.09.07
MC5TN02891	Connectrix	EC-1500-M	N/A
MC5IN04243	Connectrix	ED-140M	9.09.07
CFK50113727083	Connectrix	EC-1700-C	4.2(1a)
MC5TN01684	Connectrix	EC-1500-M	N/A
MYS78093200042	Connectrix	EC-1700-C	5.0(2)N1(1)
MYS78074900019	Connectrix	EC-1700-C	3.3(2)
MC5I06165N	Connectrix	ED-140M	9.09.07
MC5I05767N	Connectrix	ED-140M	9.00.00
MC5IN04237	Connectrix	ED-140M	9.09.07
MC5TN02887	Connectrix	EC-1500-M	N/A
MC5IN01312	Connectrix	ED-140M	N/A
MYS78071100015	Connectrix	EC-1700-C	N/A
MC5I06352N	Connectrix	ED-140M	9.09.07
MC5TN02889	Connectrix	EC-1500-M	N/A
MC5I06368N	Connectrix	ED-140M	9.01.00
MC5I06656N	Connectrix	ED-140M	9.09.07
JAE1149A1T8	Connectrix	MDS-9124	5.2(8c)
CFK50113727090	Connectrix	EC-1700-C	4.2(7e)
MYS78080700001	Connectrix	EC-1700-C	N/A
CFK50113727086	Connectrix	EC-1700-C	4.2(1a)
MC5I05766N	Connectrix	ED-140M	9.09.07
MYS78080600005	Connectrix	EC-1700-C	N/A
MC5IN04241	Connectrix	ED-140M	N/A
MC5T01552N	Connectrix	EC-1500-M	N/A
JAF1449V864	Connectrix	MDS-9124	5.2(8b)
MC5IN04245	Connectrix	ED-140M	N/A
MC5T01028N	Connectrix	EC-1500-M	9.00.00
CFK50111024020	Connectrix	EC-1700-C	4.2(7e)
MC5I05528N	Connectrix	ED-140M	9.09.07
MC5T01545N	Connectrix	EC-1500-M	N/A
SA7CX104700020	Connectrix	EC-1700-C	4.2(1a)
MC5T01299N	Connectrix	EC-1500-M	N/A
MC5I06161N	Connectrix	ED-140M	9.09.07
MC5I05765N	Connectrix	ED-140M	9.00.00
MC5I06383N	Connectrix	ED-140M	9.09.07
MC5IN02937	Connectrix	ED-140M-UPG	6.02.00
MC5I06721N	Connectrix	ED-140M	9.06.02
JAF1409162Z	Connectrix	MDS-9124	5.2(8c)

Location Details (5 of 14)

Singapore			
Serial Number	Category	Model	Microcode
MC5TN03522	Connectrix	EC-1500-M	N/A
JAF1442U099	Connectrix	MDS-9124	5.2(8c)
MC5TN02892	Connectrix	EC-1500-M	N/A
MYS78080600003	Connectrix	EC-1700-C	3.3(2)
MYS78081800034	Connectrix	EC-1700-C	3.3(2)
MC5T01021N	Connectrix	EC-1500-M	9.09.09
MC5IN04238	Connectrix	ED-140M	7.01.00
MC5I06390N	Connectrix	ED-140M	9.01.00
MYS78080600004	Connectrix	EC-1700-C	3.3(2)
MC5I05753N	Connectrix	ED-140M	9.01.00
MC5T01718N	Connectrix	EC-1500-M	9.06.02
JAE1149A1T5	Connectrix	MDS-9124	5.2(8c)
CFK50112125265	Connectrix	EC-1700-C	4.2(1a)
OF48W06598	Data Domain	DD880-CTL	N/A
OF41349458	Data Domain	DD880-CTLHX	N/A
1FZ1523025	Data Domain	DD890-CTL-B	N/A
1FZ1523026	Data Domain	DD890-CTL-B	N/A
APM00104900825	EDL	DL5200A960	04.29.000.5.014
15TJCA010000624	RecoverPoint	LPS-V57	N/A
25TJDA010000026	RecoverPoint	LPS-V75	N/A
25TJHA010000118	RecoverPoint	RPS-V57	N/A
25TJHA010000117	RecoverPoint	RPS-V57	N/A
25TJDA010000027	RecoverPoint	LPS-V75	N/A
FOX1726S03C	Switch	MDS-9513	5.2(8b)
FOX1147GMAA	Switch	MDS-9513	5.2(8c)
FOX1527GD62	Switch	MDS-9513	5.2(1)N1(5)
FOX1205GAJE	Switch	MDS-9513	5.2(1)
FOX1549G4GA	Switch	MDS-9513	5.2(1)
FOX1521GT8C	Switch	MDS-9513	5.2(1)N1(5)
FOX1517GC5J	Switch	MDS-9513	5.2(1)
MC51000941R	Switch	DS-4700M-16-0D	9.06.02
FOX1309HB4D	Switch	MDS-9513	5.2(1)
FOX1210G5RT	Switch	MDS-9513	N/A
FOX1205GAJD	Switch	MDS-9513	5.2(1)
FOX1726S01E	Switch	MDS-9513	5.2(8b)
MC51004406R	Switch	DS-4700M-16	9.06.00
FOX1516GHC6	Switch	MDS-9513	5.2(1)
MC51000939R	Switch	DS-4700M-16-0D	9.06.02
FOX1149H2MM	Switch	MDS-9513	4.2(1a)
FOX1203HDLY	Switch	MDS-9513	5.2(1)N1(5)
FOX1210G5RN	Switch	MDS-9513	5.2(1)N1(5)
FOX1215GT64	Switch	MDS-9513	5.2(1)N1(5)
FOX1205GAHD	Switch	MDS-9513	5.2(1)N1(5)
FOX1726S034	Switch	MDS-9513	5.2(8b)
FOX1149H2N5	Switch	MDS-9513	5.2(1)
FOX1205GAJM	Switch	MDS-9513	5.2(1)N1(5)

Location Details (6 of 14)

Singapore			
Serial Number	Category	Model	Microcode
MC51004434R	Switch	DS-4700M-16	9.09.09
FOX1202H3NE	Switch	MDS-9513	5.2(1)N1(5)
FOX1726S03B	Switch	MDS-9513	5.2(8b)
FOX1448GFSJ	Switch	MDS-9513	5.2(1)
FOX1203H6FQ	Switch	MDS-9513	5.2(1)N1(5)
FOX1443GRLZ	Switch	MDS-9513	5.2(1)
FOX1726S025	Switch	MDS-9513	5.2(8b)
MC51005181R	Switch	DS-4700M-16-0D	9.06.02
FOX1443GRM6	Switch	MDS-9513	5.2(1)
FOX1645Q07H	Switch	MDS-9513	5.2(1)
FOX1645Q08M	Switch	MDS-9513	5.2(1)
FOX1149H2MH	Switch	MDS-9513	5.2(1)
FOX1726S03A	Switch	MDS-9513	5.2(8b)
FOX1209GE3Z	Switch	MDS-9513	5.2(1)
FOX1210GS3N	Switch	MDS-9513	5.2(1)
FOX1516GHC4	Switch	MDS-9513	5.2(1)
FOX1203HDN4	Switch	MDS-9513	5.2(1)
FOX1516GHCF	Switch	MDS-9513	5.2(1)
FOX1519GN5F	Switch	MDS-9513	5.2(1)N1(5)
MC51000812R	Switch	DS-4700M-16	9.02.00
FOX1448G68H	Switch	MDS-9513	5.2(1)
FOX1519GN4Y	Switch	MDS-9513	5.2(1)N1(5)
FOX1549G4G2	Switch	MDS-9513	5.2(1)
CK295700608	Symmetrix	VMAX 40K	N/A
CK292603607	Symmetrix	VMAX	5876.229.145
CN492600146	Symmetrix	VMAX	5876.229.145
CK290103429	Symmetrix	DMX4-SYS24-3Y	5773.184.130
CK292600224	Symmetrix	VMAX	5876.229.145
CK292603979	Symmetrix	VMAX	5876.229.145
CK290105366	Symmetrix	DMX4-SYS24-3Y	5773.184.130
CK290301222	Symmetrix	DMX3-SYS6-3Y	5773.168.115
CN495700035	Symmetrix	VMAX 40K	5876.229.145
CK292603613	Symmetrix	VMAX	5876.229.145
CK295700507	Symmetrix	VMAX 40K	5876.229.145
CK292603943	Symmetrix	VMAX	5876.229.145
CN492600393	Symmetrix	VMAX	5876.229.145
CK295700597	Symmetrix	VMAX 40K	N/A
CN492600122	Symmetrix	VMAX	5876.229.145
CK295700613	Symmetrix	VMAX 40K	5876.229.145
CK292600268	Symmetrix	VMAX	5876.229.145
CK292603628	Symmetrix	VMAX	5876.229.145
CK295700499	Symmetrix	VMAX 40K	5876.229.145
CK290300751	Symmetrix	DMX3-SYS6-3Y	5773.168.115
CK292602662	Symmetrix	VMAX	5876.229.145
FCN00122300102	VNX	VNX7500SPE	05.32.000.5.015
FCN00122300105	VNX	VNX7500SPE	05.32.000.5.015
CKM00133401669	VNX	VNXB76DP25	05.33.000.5.038
CKM00121900293	VNX	VNX5700SPE	05.32.000.5.207

Location Details (7 of 14)

Chai Wan			
Serial Number	Category	Model	Microcode
FCNNX110300011	Celerra	NS482-C	6.0.40.8
FCNCX110100269	Celerra	NS480-AUX	04.30.000.5.523
FCNNX104200048	Celerra	NS482-C	6.0.65.2
CK200102200777	Celerra	NS482-A	5.6.43.8
CKM00102100004	Celerra	NS480-AUX	04.28.000.5.707
FCNCX103800158	Celerra	NS480-AUX	04.30.000.5.508
CK200064600689	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200061201352	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200093400652	Centera	CNR4N1MBAG4LP	4.2.0-3881-0-0
CK200093400651	Centera	CNRPTAGKIT	4.2.0-3881-0-0
CK200102000915	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200104901635	Centera	CNR4N2FBAG4LP	4.2.0-3881-0-0
CK200132100378	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200105103440	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200072300438	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200092400065	Centera	CNR4N1MBAG4LP	4.2.0-3881-0-0
CK200074300549	Centera	CNR4N5FBAG4	4.2.0-3881-0-0
CK200064601173	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200103300513	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200064600693	Centera	CNR4N5MBAG4	4.2.0-3881-0-0
CK200103300503	Centera	CNRPTAGKIT	4.2.0-3881-0-0
APM00074502570	Centera	CNR4N7MBAG4LP	4.2.0-3881-0-0
CK200081000842	Centera	CNR4N7MBAG4LP	4.2.0-3881-0-0
CK200105103439	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200132100386	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200092701496	Centera	CNR4N1MBAG4LP	4.2.0-3881-0-0
FCN00114100106	CLARiiON	CX4-120C	04.30.000.5.526
SL7FJ110200014	CLARiiON	AX4-5F	02.23.050.5.711
SL7E1093600013	CLARiiON	AX4-5F	02.23.050.5.711
SL7E1093600006	CLARiiON	AX4-5F	02.23.050.5.711
CK200034300538	CLARiiON	CX600-FD	02.19.600.5.030
FCNCX101000064	CLARiiON	CX4-120C	04.30.000.5.526

Location Details (8 of 14)

Chai Wan			
Serial Number	Category	Model	Microcode
FCNMM101600022	CLARiiON	AX4-5F	02.23.050.5.711
FCNMM093800007	CLARiiON	AX4-5F	02.23.050.5.711
FCNMM105200234	CLARiiON	AX4-5F	02.23.050.5.711
CK200081900505	CLARiiON	CX3-20F	03.26.080.5.016
SL7FJ110200008	CLARiiON		02.23.050.5.711
FCNCX093700035	CLARiiON	CX4-120C	04.30.000.5.524
SL7E1093600014	CLARiiON	AX4-5F	02.23.050.5.711
SL7FJ110800006	CLARiiON	AX4-5F	02.23.050.5.711
FCNMM105200232	CLARiiON	AX4-5F	02.23.050.5.711
FOX1438H3M5	Connectrix	MDS-9124	5.2(8b)
CFK50110122608	Connectrix	EC-1700-C	5.0(3)N2(2)
MYS78075200001	Connectrix	EC-1700-C	3.3(1c)
MC5T01238N	Connectrix	EC-1500-M	N/A
MC5T01240N	Connectrix	EC-1500-M	N/A
MC5T01279N	Connectrix	EC-1500-M	5.03.00
MC5T01286N	Connectrix	EC-1500-M	N/A
MC5T01287N	Connectrix	EC-1500-M	N/A
MC5T01381N	Connectrix	EC-1500-M	5.03.00
MYS78073600012	Connectrix	EC-1700-C	3.3(1c)
MYS78080700012	Connectrix	EC-1700-C	3.3(1c)
JAF12205177	Connectrix	MDS-9124	3.2(1a)
MYS78074400025	Connectrix	EC-1700-C	3.3(1c)
CFK50112025185	Connectrix	EC-1700-C	5.0(3)N2(2)
JAF13512XXV	Connectrix	MDS-9124	5.2(8c)
JAF14060ZOY	Connectrix	MDS-9124	5.2(8c)
JAF142238XZ	Connectrix	MDS-9124	3.3(1c)
CFK50113426780	Connectrix	EC-1700-C	5.0(3)N2(2)
CFK56104421736	Connectrix	EC-1700-B	7.0.0a
JAF13512XWY	Connectrix	MDS-9124	5.2(8c)
MYS78085200006	Connectrix	EC-1700-C	3.3(1c)
CFK50112025199	Connectrix	EC-1700-C	5.0(3)N2(2)
JAF14316781	Connectrix	MDS-9124	3.3(1c)
JAF1225625Y	Connectrix	MDS-9124	3.3(1c)
MC5I06148N	Connectrix		9.09.07
MC5I06155N	Connectrix	ED-140M	9.09.07
MC5I06158N	Connectrix	ED-140M	9.09.07
MC5I06336N	Connectrix	ED-140M	9.09.07
MC5I06343N	Connectrix	ED-140M	9.09.07
CFK50110723592	Connectrix	EC-1700-C	5.0(3)N2(2)
CFK50112025188	Connectrix	EC-1700-C	5.0(3)N2(2)

Location Details (9 of 14)

Chai Wan			
Serial Number	Category	Model	Microcode
JAE1149A1P4	Connectrix	MDS-9124	5.2(8c)
MYS78080700013	Connectrix	EC-1700-C	3.3(1c)
JAE1149A1NJ	Connectrix	MDS-9124	5.2(8c)
CFK50113426779	Connectrix	EC-1700-C	5.0(3)N2(2)
MC5T01174N	Connectrix	EC-1500-M	N/A
MC5T01179N	Connectrix	EC-1500-M	N/A
MC5T01180N	Connectrix	EC-1500-M	N/A
JAF15050XXY	Connectrix	MDS-9124	5.2(8b)
MC5T01212N	Connectrix	EC-1500-M	N/A
MC5T01214N	Connectrix	EC-1500-M	N/A
OF41334268	Data Domain	DD880-CTLMX	5.1.4.0
OF48W27071	Data Domain	DD880-CTL	5.1.4.0
OF48W04270	Data Domain	DD880-CTL	5.1.1.2
1FZ1534025	Data Domain	DD890-CTL-B	5.4.0.8
APM00111904219	EDL	DL5200A960	04.29.000.5.017
NNG04105210089	RecoverPoint	RP-HW-1U-GEN4	3.2 SP3
NNG04105210087	RecoverPoint	RP-HW-1U-GEN4	3.2 SP3
MC5S407739	Switch	DS-32M2-00	9.00.00
MC51000793R	Switch	DS-4700M-16	9.00.00
FOX1251GU34	Switch	MDS-9513	5.2(1)
FOX1516G4K1	Switch	MDS-9513	5.2(8c)
JAF14336U8Y	Switch	MDS-9134	3.3(1c)
MC51001096R	Switch	DS-4700M-16	9.00.00
MC51002718R	Switch	DS-4700M-16	9.09.07
MC51002720R	Switch	DS-4700M-16	9.09.07
FOX1147GMA5	Switch	MDS-9513	5.2(8c)
FOX1443GRL8	Switch	MDS-9513	5.2(1)
FOX1208G1R9	Switch	MDS-9513	5.2(8c)
FOX1149H2LK	Switch	MDS-9513	5.2(8c)
JAF143573V3	Switch	MDS-9134	3.3(1c)
FOX1208G1ST	Switch	MDS-9513	5.2(8c)
MC5S405629	Switch	DS-32M2-00	9.00.00
FOX1516GHAT	Switch	MDS-9513	5.2(8c)
FOX1443GRLF	Switch	MDS-9513	5.2(1)
MC5S407126	Switch	DS-32M2-00	9.00.00
FOX1211GKUF	Switch	MDS-9513	5.2(1)
MC51004956R	Switch	DS-4700M-16	9.02.00
MC51003389R	Switch	DS-4700M-16	9.02.00
MC51004814R	Switch	DS-4700M-16	9.02.00
FOX1428H1L0	Switch	MDS-9513	5.2(1)
FOX1428H1N7	Switch	MDS-9513	5.2(1)
MC51001616R	Switch	DS-4700M-16	9.00.00
CK292600269	Symmetrix	SB-3Y	5876.229.145
CK292603574	Symmetrix	SB-3Y	5876.229.145
CK295700518	Symmetrix	SD-3Y	N/A
CK290301196	Symmetrix	DMX3-SYS6-3Y	5773.184.130
CN492600105	Symmetrix	SB-3Y	5876.229.145
CN492600106	Symmetrix	SB-3Y	5876.229.145
CK295700478	Symmetrix	SD-3Y	5876.229.145
CK290105338	Symmetrix	DMX4-SYS24-3Y	5773.184.130
CK292601913	Symmetrix	SB-3Y	5876.229.145
CKM00133700069	VNX	VNXB76DP25	05.33.000.5.038

Location Details (10 of 14)

Shanghai			
Serial Number	Category	Model	Microcode
1308639421842B2B4C	Avamar	456-100-309	N/A
CK200111300818	Avamar	AVMRACKG3	5.0.4.906
CK200140200067	Centera	CNR4N2MBAG4LP	4.2.2-4554-1-0
CK200103000812	Centera	CNRPTAGKIT	4.2.0-3881-0-0
CK200103000813	Centera	CNR4N2MBAG4LP	4.2.0-3881-0-0
CK200140200065	Centera	CNRPTAGKIT	4.2.2-4554-1-0
CKM00093900037	CLARiiON	CX4-120C	04.30.000.5.526
SL7E1093500057	CLARiiON	AX4-5F	02.23.050.5.711
FCNMM115000071	CLARiiON	AX4-5F	02.23.050.5.711
BRCANN1915G013	Connectrix	ED-DCX-4S-B	7.0.0c
SA7CX103000010	Connectrix	EC-1700-C	6.3.1a
CFK56110322930	Connectrix	EC-1700-B	6.3.2b
BRCANN1908G006	Connectrix	ED-DCX-4S-B	7.0.0c
CFK56110923877	Connectrix	EC-1700-B	6.3.2b
1FZ0924016	Data Domain	DD670-12TB	N/A
3FZ0738172	Data Domain	DD860-CTX-B	N/A
0F41330795	Data Domain	DD880-CTLMX	5.4.2.0
14OS20000001223	ESRS	ESRS-GW-200	N/A
14OS20000001222	ESRS	ESRS-GW-200	N/A
FOX1425GT3L	Switch	MDS-9513	5.2(1)
AMS17510347	Switch	MDS-9148-16	7.2.0d
AMS17510355	Switch	MDS-9148-16	7.2.0d
FOX1425GT3T	Switch	MDS-9513	5.2(1)
CN492600020	Symmetrix	SB-3Y	5876.229.145
CN498700161	Symmetrix	BA-SYS1E	5876.163.105
CN498700237	Symmetrix	BA-SYS1E	5876.229.145
CN492600546	Symmetrix	S2-3Y	5876.229.145
CN492600021	Symmetrix	SB-3Y	5876.229.145
FCN00141000268	VNX	VNX51D153015F	05.33.000.5.051

Location Details (11 of 14)

Mumbai			
Serial Number	Category	Model	Microcode
FCNMM114700132	CLARiiON	AX4-5F	02.23.050.5.711
CKM00093200604	CLARiiON	CX4-120C	04.30.000.5.526
SL7E1093500038	CLARiiON	AX4-5F	02.23.050.5.711
SL7E1093500033	CLARiiON	AX4-5F	02.23.050.5.711
JAF15470486	Connectrix	MDS-9124	5.2(1)N1(5)
CFK50132837153	Connectrix	EC-1700-C	3.3(5b)
JAF15480627	Connectrix	MDS-9124	5.2(1)N1(5)
15TJAA010002052	RecoverPoint	LPS-V53	N/A
15TJAA010002053	RecoverPoint	LPS-V53	N/A
15TJFA010001557	RecoverPoint	RPS-V53	N/A
15TJFA010001558	RecoverPoint	RPS-V53	N/A
FOX1646GHR5	Switch	MDS-9509-V2	5.2(1)N1(5)
FOX1708GHVA	Switch	MDS-9509-V2	5.2(1)N1(5)
CK298700658	Symmetrix	BA-SYS1E	5876.163.105
CKM00114900248	VNX	VNX53D153015	05.32.000.5.207

Mumbai (BKC)			
Serial Number	Category	Model	Microcode
CK200083500078	Centera	CNR4N1MBAG4LP	4.2.0-3881-0-0
CFK50113727089	Connectrix	EC-1700-C	4.2(5)
CFK50113727084	Connectrix	EC-1700-C	4.2(5)
FOX1521G9YF	Switch	MDS-9222I	5.2(1)
FOX1528H1XT	Switch	MDS-9222I	5.2(1)
CK294901296	Symmetrix	SB-3Y-A	5876.229.145

Sydney			
Serial Number	Category	Model	Microcode
FCNMM121200094	CLARiiON	AX4-5F	02.23.050.5.711
FCNMM110300136	CLARiiON	AX4-5F	02.23.050.5.711
FCNCX100400203	CLARiiON	CX4-120C	04.30.000.5.526
JAF1449V462	Connectrix	MDS-9124	5.2(1)N1(5)
JAF1449V989	Connectrix	MDS-9124	5.2(1)N1(5)

Location Details (12 of 14)

Tamil Nadu			
Serial Number	Category	Model	Microcode
CK200083800219	Centera	CNR4N1MBAG4LP	4.2.0-3881-0-0
CFK50132837150	Connectrix (McData)	EC-1700-C	3.3(5b)
JAF154806Y5	Connectrix	MDS-9124	5.2(1)N1(5)
JAF154806X0	Connectrix	MDS-9124	5.2(1)N1(5)
FOX1716GFMX	Switch	MDS-9509-V2	5.2(1)N1(5)
FOX1708GHTJ	Switch	MDS-9509-V2	5.2(1)N1(5)
CK298700651	Symmetrix	BA-SYS1E	5876.163.105
CKM00114900032	VNX	VNX53D153015	05.32.000.5.207

Kao-Hsiung			
Serial Number	Category	Model	Microcode
CKM00093500355	Celerra	NS480-AUX	04.30.000.5.523
JAF13472499	Connectrix	MDS-9124	5.2(8c)
JAF134724U7	Connectrix	MDS-9124	5.2(8c)
FOX1535GUDX	Switch	MDS-9222I	5.2(8c)
FOX1535GUE0	Switch	MDS-9222I	5.2(8c)
CK294901383	Symmetrix	SB-3D-A	5876.229.145

Ming Chuang			
Serial Number	Category	Model	Microcode
FOX1535GUDU	Switch	MDS-9222I	5.2(8c)
FOX1535GKG9	Switch	MDS-9222I	5.2(8c)
CK294901344	Symmetrix	SB-3D-A	5876.229.145

Taipei			
Serial Number	Category	Model	Microcode
CKM00093600623	Celerra	NS480-AUX	04.30.000.5.523
CK200093700169	Celerra	NS4824-A	6.0.70.4
SL7E1093500042	CLARiiON	AX4-5F	02.23.050.5.711
CKM00093400132	CLARiiON	CX4-120C	04.30.000.5.526
JAF1347245X	Connectrix	MDS-9124	5.2(8c)
JAF134724U6	Connectrix	MDS-9124	5.2(8c)
FOX1414GS7A	Switch	MDS-9222I	5.2(8c)
FOX1535GKHF	Switch	MDS-9222I	5.2(8c)
CK294901365	Symmetrix	SB-3D-A	5876.229.145

Location Details (13 of 14)

HungHom			
Serial Number	Category	Model	Microcode
CK200044100337	CLARiiON	CX700-FD	02.16.700.5.006
JAE1149A1SA	Connectrix	MDS-9124	3.2(1a)
JAF15081U32	Connectrix	MDS-9124	5.2(8c)
MC5V2007800	Switch	DS-24M2-08C	6.3.2a

Beijing			
Serial Number	Category	Model	Microcode
CK200093900215	Celerra	NS122-A	6.0.70.4
CKM00093900116	Celerra	NS120-AUX	04.30.000.5.526
FCN00112200066	CLARiiON	CX4-480C	04.30.000.5.526
JAF15255VZ0	Connectrix	MDS-9124	5.2(1)N1(5)
JAF15255VZU	Connectrix	MDS-9124	5.2(1)N1(5)
1FZ0928003	Data Domain	DD670-12TB	N/A
AMS16180104	Switch	MDS-9148-16	CUSTOMER INSTALLABLE
AMS16200307	Switch	MDS-9148-16	CUSTOMER INSTALLABLE

Nanjing			
Serial Number	Category	Model	Microcode
FCNC104500115	CLARiiON	CX4-120C8	04.29.000.5.014

Sung Zhu			
Serial Number	Category	Model	Microcode
CK200083601025	CLARiiON	CX3-20C	03.26.040.5.031
JAF12368VYX	Connectrix	MDS-9124	3.3(1c)
JAF123580X8	Connectrix	MDS-9124	5.2(8c)
Kuala Lumpur			
Serial Number	Category	Model	Microcode
CKM00104200269	CLARiiON	CX4-120C	04.30.000.5.526
JAF1438844X	Connectrix	MDS-9124	5.0(7)
JAF143886X2	Connectrix	MDS-9124	5.2(8c)

Location Details (14 of 14)

Jakarta			
Serial Number	Category	Model	Microcode
CKM00093600628	Celerra	NS480-AUX	04.30.000.5.526
CK200093700367	Celerra	NS4824-A	6.0.70.4
CKM00105200038	CLARiiON	CX4-120C	04.28.000.5.707
JAF1449V5V6	Connectrix	MDS-9124	5.2(8c)
JAF1449V5UV	Connectrix	MDS-9124	5.2(8c)
2FZ2322026	Data Domain	DD640-12T-B	N/A

Bagkok			
Serial Number	Category	Model	Microcode
JAF150816V9	Connectrix	MDS-9124	5.2(8c)
JAF152661X4	Connectrix	MDS-9124	5.2(1)N1(5)
CKM00114400773	VNX	VNX53D153015	05.32.000.5.207

Wattana			
Serial Number	Category	Model	Microcode
JAF152459UU	Connectrix	MDS-9124	5.2(8c)
CKM00114400775	VNX	VNX53D153015	05.32.000.5.207

Seoul			
Serial Number	Category	Model	Microcode
AMS16410186	Switch	MDS-9148-32	5.2(1)
AMS16410522	Switch	MDS-9148-32	5.2(1)
CKM00125002588	VNX	VNX51D153015F	05.31.000.5.709

Chennai			
Serial Number	Category	Model	Microcode
JAF17241YZ8	Connectrix	MDS-9124	5.2(8b)
JAF17221UVU	Connectrix	MDS-9124	5.2(8b)
CKM00131900759	VNX	VNX51D153015	05.32.000.5.207

New Delhi			
Serial Number	Category	Model	Microcode
JAF172118X2	Connectrix	MDS-9124	5.2(1)N1(5)
JAF17231XUY	Connectrix	MDS-9124	5.2(1)N1(5)
CKM00131900766	VNX	VNX51D153015	05.32.000.5.207