HP SIM Discovery Cases for c-Class BladeSystems in HP BladeSystem Integrated Manager



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Discovery Scenario 2: The servers, servers associated iLO2, and switches are discovered first and then the Onboard Administrator	Case 2: The discovery/configuration option Discover systems in an Enclosure when Onbo	ard
Onboard Administrator	Administrator is discovered selected	6
Case 1: The discovery/configuration option Discover systems in an Enclosure when Onboard Administrator is discovered deselected	Discovery Scenario 2: The servers, servers associated iLO2, and switches are discovered first and t	hen the
Administrator is discovered deselected	Onboard Administrator	9
Case 2: The discovery/configuration option Discover systems in an Enclosure when Onboard Administrator is discovered selected	Case 1: The discovery/configuration option Discover systems in an Enclosure when Onbo	ard
Administrator is discovered selected	Administrator is discovered deselected.	9
	Case 2: The discovery/configuration option Discover systems in an Enclosure when Onbo	ard
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Introduction

This white paper is intended to assist a user in identifying c-Class enclosures with its contained devices discovered in HP SIM 5.2.

Getting started

Target audience

It is assumed that readers of this document have an excellent understanding of the following concepts and services:

- Manual and Automatic Discovery of devices in HP SIM
- Usage of Configure general settings in SIM for device discovery

In addition, readers must be familiar with installing and administering:

- HP SIM 5.x
- HP BladeSystem Integrated Manager

HP SIM Discovery cases for c-Class BladeSystem in HP BladeSystem Integrated Manager

Pre-requisites:

This section assumes you have already configured the following:

- Source central management server (CMS) The system where HP SIM 5.x is installed with any supported database.
- On-board Administrator (OA) The management module of an On-Board Administrator Enclosure having the latest management firmware.
- c-Class Servers The servers sitting in the On-Board Administrator enclosure to be identified in the HP SIM to manage having the latest Integrated Lights Outs 2 (iLO 2) firmware.

For more details about HP SIM 5.x prerequisites, refer to the HP SIM User Guide and HP SIM Release Notes located on the HP Management CD.

Software Compatibility:

Onboard Administrator	V1.20		
ilO2	v1.24 or higher		
HP BladeSystem Integrated Manager in HP Systems Insight Manager	v3.2		
HP Systems Insight Manager	v5.2 upgraded with "HP BladeSystem Integrated Manager v3.2"		
HP Insight Control Data Center Edition	v1.1 upgraded with "HP BladeSystem Integrated Manager v3.2"		

Server Blade Software & Drivers:

BL460c	version 2006.09.18 or later
BL480c	version 2006.09.18 or later
BL465c	version 2006.08.24A or later
BL685c	version 2006.10.20 or later

Discovery Scenarios

This section consists of two identification methods to identify the c-Class enclosure in HP-SIM "All Enclosures collection":

• **Discovery Scenario 1:** Onboard Administrator discovered first and then the servers, servers associated iLO2, and switches.

• **Discovery Scenario 2:** The servers, servers associated iLO2, and switches are discovered first and then the Onboard Administrator.

Discovery Scenario 1: Onboard Administrator discovered first and then the servers, servers associated iLO2, and switches.

There are two discovery cases under this scenario namely,

- Case 1: The discovery/configuration option Discover systems in an Enclosure when Onboard Administrator is discovered deselected.
- Case 2: The discovery/configuration option Discover systems in an Enclosure when Onboard Administrator is discovered selected.

Case 1: The discovery/configuration option **Discover systems in an Enclosure when Onboard Administrator is discovered** deselected.

The following steps guide you to discover the On-board Administrator for Case 1:

- 1. Go to **Options→Discovery**.
- 2. Click the Configure general settings link.

Tools ¬ Help ¬		e 🔹 Diagnose 👻	Optimize 👻	Reports +	Tasks & Logs 👻	Options +			
Disco	very								
dicate th	e systems you want HP Syste	ms Insight Manager to r	nanage.						
Automatic Manual Hosts Files									
-	e and run automatic system di	scovery. Be sure to co	nfigure the settings	prior to executin	ng automatic discovery	for the most			
For all a Confi <u>c</u> Manag	e information. automatic discoveries: gure general settings ge templates gure global protocol settings								
For all a Confi <u>c</u> Manag	utomatic discoveries: gure general settings	↑ La	st Run	Schedu	le	_			
For all a Confi <u>c</u> Manag	utomatic discoveries: jure general settings ge templates gure global protocol settings		st Run /18/06 5:05 PM		le Disabled - Periodic				

3. Under General Settings for All Discoveries, deselect Discover systems in an enclosure when Onboard Administrator is discovered as shown.

Tools 🔻	Deploy 🔻	Configure 🔻	Diagnose 🔻	Optimize 🔻	Reports 👻	Tasks & Logs 🔻	Options 🔻	Help 🔻	Debug 🔻		
Indicate th Go back to For all au	Discovery Indicate the systems you want HP Systems Insight Manager to manage. Go back to All Racks For all automatic discoveries: Configure general settings										
	e templates ure global proto	col settings									
	Name			↑ Last Run		Schedule					
۲	System Auto	matic Discovery		1/17/08 10:	06 PM	Task is Disabl	ed - Periodic				
			l	New	Edit	Enable	Delete	Ru	n Now		
Auto Auto Disc Auto	Discover systems in an enclosure when Onboard Administrator is discovered										
_	-		•			when one of the vir Pars is identified		o lucikine			
	-	s, templates and				irai s is iuchuincu					
				V					T		

- 4. Go to the bottom of the page and click **OK** to save the settings. The **Discovery** page appears.
- 5. Click the **Manual** tab and provide the Onboard Administrator system name or IP address for the text field named **Enter the system's name or IP address**.

Tools 🔻 Help 🔻	Deploy 🔻	Configure 🔻	Diagnose 👻	Optimize 👻	Reports 🔻	Tasks & Logs 🔻	Options 🔻				
Discovery Indicate the systems you want HP Systems Insight Manager to manage.											
Automatic Manual Hosts Files											
Add a singl	Add a single system to be managed by HP Systems Insight Manager.										
System	Informatio	n									
Required fie	eld *										
Enter the system's name or IP address: *											
					Mo	ore Settings	Add System				

6. Click Add System to continue.

7. Click **Tools→Integrated Consoles →HP BladeSystem**. The following page appears as shown.

Tools 🔻	Deploy 👻	Configure 👻	Diagnose 👻	Optimize 👻	Reports 👻	Tasks & Logs 🔻	Options 👻	Help 🔻	Debug 👻		
All c-0	Class En	closures							Maximize ?		
System	(s) Eve	ents Quic	k Launch								
View as: tree											
Select "All c-Class Enclosures" itself											
	172.20.75 C-Class-Er 172.24.31 172.24.32 172.24.32 172.24.32 172.24.32 172.24.32 172.24.32 172.24.32 172.24.32 08lddet Encl_092UX OA-0018FE 172.20.75 OBY123456	2 (Server Enclos 62 (BladeSystem hclosure (Ser 116 (HP 1/10Gb \ 171 (ProLiant BL44 179 (ProLiant BL44 80 (ProLiant BL44 86 (ProLiant BL44 17320025 (Server 1 17320025 (Server 1	c7000 Onboard / rver Enclosure) /C-Enet Module) 50c G1) 80c G1) 55c G1) 55c G1) 50c G1	tor) Administrator)	Save /	As Collection	Defete		Print		

Note that there are no logical nodes created for Servers and switches when OA is discovered in this case. Logical Servers and switches are not the actual servers and switches discovered. The complete discovery of servers and switches takes place with IP Address or the DNS name of the device.

To discover the servers & switches, run a Manual/Automatic discovery with the Server, Server iLO2, and Switch DNS name or IP Address. After discovering the servers and switches the associated servers (iLO2→Server, Server→Enclosure) and switches (switches→Enclosure) will appear under "All c-Class Enclosures" collection.

Case 2: The discovery/configuration option **Discover systems in an Enclosure when Onboard Administrator is discovered** selected.

The following steps guide you to discover the On-board Administrator for Case 2:

1. Go to **Options→Discovery.**

2. Click the **Configure general settings** hyperlink.

Tools ¬ Help ¬	r Deploy v	Configure 🔻	Diagnose 🔻	Optimize 🔻	Reports 👻	Tasks & Logs 👻	Options 👻			
Discovery Indicate the systems you want HP Systems Insight Manager to manage.										
Automatic Manual Hosts Files										
-	Configure and run automatic system discovery. Be sure to configure the settings prior to executing automatic discovery for the most accurate information.									
For all automatic discoveries: Configure general settings Manage templates Configure global protocol settings										
	Name		↑ Las	t Run	Schedu	le				
۲	System Automa	tic Discovery	12/1	8/06 5:05 PM	Task is	Disabled - Periodic				
			New	Edit	Enable	Delete	Run Now			

3. Under General Settings for All Discoveries, select Discover systems in an enclosure when Onboard Administrator is discovered.

Tools 👻 🛛	Deploy 🔻	Configure 🔻	Diagnose 👻	Optimize 👻	Reports 👻	Tasks & Logs 🔻	Options 👻	Help 👻			
Discovery Indicate the systems you want HP Systems Insight Manager to manage. Go back to HP BladeSystem											
_	General Settings for All Discoveries										
_	-	cover a system									
	-					ement processor is	s identified				
_		s in an enclosur				ed					
	-	cover VM guest									
_						when one of the vir	tual partition	is identified			
🗹 Automa	atically disc	cover all nPars i	within the sam	e complex whe	en one of the r	Pars is identified					
Pina exc <i>lusi</i>	ion ranges	, templates and	/or hosts files:								
		,		A							
▲				•							
Enable	Enable discovery filters										

4. Go to the bottom of the page and click **OK** to save the settings. The **Discovery** page appears.

5. Click the **Manual** tab and provide the Onboard Administrator system name or IP address for the text field named **Enter the system's name or IP address**.

Tools + Help +	Deploy 👻	Configure 🔻	Diagnose 🔻	Optimize +	Reports +	Tasks & Logs 👻	Options +			
Discovery ndicate the systems you want HP Systems Insight Manager to manage.										
Automatic Manual Hosts Files										
Add a single	e system to be r	nanaged by HP Sy	stems Insight Man	ager.						
System	Information	n								
Required field *										
Enter the system's name or IP address: *										
					Ma	re Settings	Add System			

- 6. Click Add System to continue.
- 7. Click **Tools**-Integrated Consoles-HP BladeSystem. The following page appears.

Fools 🔻 🗌	Deploy 👻 Configur	e 👻 Diagnose 👻	Optimize 🔻	Reports 🔻	Tasks & Logs 🔻	Options 🔻	Help 🔻		
HP BladeSystem									
System(s)	Events	Quick Launch							
/iew as: tr	ee 💌								
🗌 Select "H	HP BladeSystem" itself								
	All e-Class Enclosure	s							
	All c-Class Enclosure	-							
	C-Class-Enclosure	•	re)						
	172.24.31.105 (Pro								
H 🛛	172.24.32.71 (ProLi	,							
	1Z34AB7890 (ProL	,							
H¥	2UX73503C0 (ProL	,							
		2c Ethernet Blade Swi	·						
HX		2c Ethernet Blade Swit	·						
HX		7000 Onboard Adminis	trator)						
HX	QS75MZ2492 (ProL	,							
HX	•	/10Gb VC-Enet Module	9)						
HX	USJ708001G (HP 4								
	USM63602R5 (ProL	,							
	USM63707EM (ProL USM63902M2 (ProL	,							
Ηŏ	USM642084E (ProL	,							
Πū	USM64404DP (ProL	,							
Πŏ	USM71806EW (Prol								
	Encl_09121212121212	,							
Πŏ	Encl_0999999999999999999999999999999999999								
	All p-Class Enclosure								
				Roug	As Collection	Delete			
				save	As collection	Delete			

Note that there are Logical nodes created for Servers and switches when OA is discovered in this case. Logical Servers and switches are not the actual servers and switches discovered. The complete discovery of servers and switches takes place with IP Address or the DNS name of the device.

8. To discover the servers and switches, run a Manual/Automatic discovery with the Server, Server iLO2, and Switch DNS name or IP Address. After discovering the servers and switches; the associated servers (iLO2→Server, Server→Enclosure) and switches (switches→Enclosure) will

appear under **All c-Class Enclosures** collection. These servers and switches get merged with the Logical nodes of respective servers and switches created during the OA discovery.

NOTE: The discovery can be executed by providing the IP address of the devices using the **Automatic or Host Files** tab available in the Discovery page. The host file should include the IP address, full DNS name, and the hostname. This option is more suitable when there are multiple devices available in the network. Prefix the **(\$)** dollar sign to the host file name while running the Discovery task.

Discovery Scenario 2: The servers, servers associated iLO2, and switches are discovered first and then the Onboard Administrator.

In this case all the servers, iLO2 associated with the servers, and switches are discovered first & then the Onboard Administrator is discovered.

To discover the physical servers & switches; run a Manual/Automatic discovery with the Server, Servers associated iLO2, and Switch DNS name or IP Address. At present these discovered server, switches will not appear under the **All Enclosures** collection since the Onboard Administrator is not discovered yet.

Again there are two discovery cases under this scenario namely,

- Case 1: The discovery/configuration option Discover systems in an enclosure when Onboard Administrator is discovered deselected.
- Case 2: The discovery/configuration option is **Discover systems in an enclosure when Onboard Administrator is discovered** selected.

Case 1: The discovery/configuration option **Discover systems in an Enclosure when Onboard Administrator is discovered** deselected.

deselected.

The following steps guide you to discover the On-board Administrator for Case 1:

1. Go to **Options→Discovery.**

2. Click the **Configure general settings** link.

Tools 🔻 Help 🔻	· Deploy •	Configure 🔻	Diagnose 🔻	Optimize 👻	Reports 👻	Tasks & Logs 🔻	Options 👻			
Discovery ndicate the systems you want HP Systems Insight Manager to manage.										
Automatic Manual Hosts Files										
-	Configure and run automatic system discovery. Be sure to configure the settings prior to executing automatic discovery for the most accurate information.									
For all automatic discoveries: Configure general settings Manage templates Configure global protocol settings										
	Name		↑ Las	t Run	Schedul	e				
۲	System Automa	tic Discovery	12/1	8/06 5:05 PM	Task is l	Disabled - Periodic				
		I	New	Edit	Enable	Delete	Run Now			

3. Under General Settings for All Discoveries, deselect Discover systems in an enclosure when Onboard Administrator is discovered.

Tools 🔻	Deploy 👻	Configure 🔻	Diagnose 🔻	Optimize 🔻	Reports 🔻	Tasks & Logs 🔻	Options 👻	Help 🔻	Debug 🔻
Go back to	e systems you o All Racks	want HP System:	s Insight Manager	to manage.					Maximize ?
Configu Manage	rtomatic disc ure general set e templates ure global proto	tings							
	Name			↑ Last Run		Schedule			
۲	System Auto	matic Discovery		1/17/08 10:	06 PM	Task is Disabl	ed - Periodic		
			I	New	Edit	Enable	Delete,	Ru	n Now
🗌 Auto	- omatically dis	s for All Disc cover a system cover a server	when an even			ement processor is	s identified		
🗆 Disc	over system	s in an enclosu	re when Onboa	rd Administrat	or is discover	ed			
_	omatically dis	cover VM gues	t(s) when the h	ost is identifie	d.				
_	-		-			when one of the vi	tual partition	is identific	ed
🗹 Auto	omatically dis	cover all nPars	within the sam	e complex whe	en one of the r	Pars is identified			
Ping exc.	lusion ranges	s, templates and	l/or hosts files:						
न				× ×					-1

4. Go to the bottom of the page and click **OK** to save the settings. The **Discovery** page appears.

5. Click the **Manual** tab and provide the Onboard Administrator system name or IP address for the text field named **Enter the system's name or IP address**.

Tools 🔻 Help 👻	Deploy 🔻	Configure 🔻	Diagnose 🔻	Optimize 🔻	Reports 🝷	Tasks & Logs 👻	Options 👻
Discove		nt HP Systems Ins	ight Manager to m	anage.			
Automa	tic Ma	nual Host	s Files				
Add a single	e system to be r	nanaged by HP Sy	stems Insight Mar	nager.			
System	Information	n					
Required fie	ld *						
Enter the s	system's nam	e or IP address:	*				
					Мо	re Settings	Add System

- 6. Click Add System to continue.
- 7. Click **Tools**->Integrated Consoles->HP BladeSystem. The following page appears.

Tools \star Deploy \star	Configure 👻	Diagnose 🔻	Optimize 👻	Reports 🔻	Tasks & Logs 🔻	Options 👻	Help 🔻
HP BladeSyst	em						
System(s) Ev	ents Quick	Launch					
View as: tree 💌							
☐ Select "HP BladeSy	stem" itself						
	s Enclosures s Enclosures -Enclosure (S S adeSystem c7000 C 212121212 (Serve BY1234567 (Serve s Enclosures)nboard Administ r Enclosure)					

Note that the previously discovered servers, switches appear now under the collection upon discovering the Onboard Administrator.

 To discover the more servers & switches, run a Manual/Automatic discovery with the Server, Server iLO2, and Switch DNS name or IP Address. After discovering the servers and switches; the associated servers (iLO2→Server, Server→Enclosure) and switches (switches→Enclosure) will appear under All c-Class Enclosures collection.

Case 2: The discovery/configuration option **Discover systems in an Enclosure when Onboard Administrator is discovered** selected.

The following steps guide you to discover the On-board Administrator for Case 2:

- 1. Go to **Options→Discovery.**
- 2. Click the Configure general settings link.

Tools + Help +	Deploy 🔻	Configure 🔻	Diagnose 🔻	Optimize 👻	Reports 👻	Tasks & Logs 🔻	Options 👻
Discov	/ery						
Indicate the	systems you wa	int HP Systems Ins	ight Manager to m	anage.			
Autom	natic Mar	nual Host	s Files				
accurate i For all au Configu Manage	information. (tomatic discov ure general setting e templates ure global protoco	eries: gs				ng automatic discovery	for the most
	Name		↑ Las	t Run	Schedu	lle	
۲	System Automa	tic Discovery	12/1	8/06 5:05 PM	Task is	Disabled - Periodic	
		l	New	Edit	Enable	Delete	Run Now

3. Under General Settings for All Discoveries, select Discover systems in an enclosure when Onboard Administrator is discovered.

Tools - Deploy - Configure - Diagnose - Optimize	🕶 Reports 👻 Ta	isks & Logs 👻	Options 👻	Help 👻
Discovery Indicate the systems you want HP Systems Insight Manager to manage. Go back to HP BladeSystem				
General Settings for All Discoveries				
\square Automatically discover a system when an event is received	from it			
Automatically discover a server blade when its Integrated I	ights Out manageme	ent processor is	identified	
Discover systems in an enclosure when Onboard Administ	ator is discovered			
Automatically discover VM guest(s) when the host is ident	īed.			
Automatically discover other virtual partitions within the sa	ne vPar Monitor whe	en one of the virt	tual partition i	s identified
Automatically discover all nPars within the same complex within the same co	hen one of the nPars	s is identified		
Ping exclusion ranges, templates and/or hosts files:				
Enable discovery filters				

4. Go to the bottom of the page and click **OK** to save the settings. The **Discovery** page appears.

5. Click the **Manual** tab and provide the Onboard Administrator system name or IP address for the text field named **Enter the system's name or IP address**.

Tools + Help +	Deploy 👻	Configure 👻	Diagnose 🔻	Optimize 👻	Reports 👻	Tasks & Logs 👻	Options 👻
Discove		nt HP Systems Insi	ight Manager to m	anage.			
Automa	tic Mai	nual Hoste	s Files				
Add a single	e system to be r	nanaged by HP Sy	sterns Insight Man	ager.			
System	Information	ı					
Required fie	ld *						
Enter the s	system's nam	e or IP address:	*				
					Мо	re Settings	Add System

- 6. Click Add System to continue.
- 7. Click **Tools→Integrated Consoles →HP BladeSystem**. The following page appears.

iools 👻 🛛	Deploy 👻 Configure 🤊	🔹 Diagnose 🔻	Optimize 🔻	Reports 🔻	Tasks & Logs 🔻	Options 👻	Help 🔻
HP Blac	leSystem						
System(s)	Events Qu	uick Launch					
/ievvas: tre	e 🔽						
Select "H	IP BladeSystem" itself						
	All e-Class Enclosures						
	All c-Class Enclosures						
	🖬 C-Class-Enclosure (🔇	🛛 Server Enclosu	re)				
	172.24.31.105 (ProLiar	,					
ЦV	172.24.32.71 (ProLiant	,					
	1Z34AB7890 (ProLiant	,					
H¥	2UX73503C0 (ProLiant						
	MY3638018W (GbE2c						
HX	MY363801D3 (GbE2c I		·				
HX	oa (BladeSystem c700		trator)				
HX	QS75MZ2492 (ProLian	,					
HX	TW270700A3 (HP 1/10		e)				
Ηŏ	USJ708001G (HP 4Gb	,					
	USM63602R5 (ProLiant USM63707EM (ProLian	,					
	USM63902M2 (ProLian	,					
Ηŏ	USM642084E (ProLiant	,					
	USM64404DP (ProLiant	,					
Πŏ	USM71806EW (ProLian	,					
	Encl_091212121212 (Ser	,					
	Encl_0999999999999999999999999999999999999	,					
	All p-Class Enclosures						
				Source	As Collection	Delete	
				2446	na sullecturi	Derete	

Note that the previously discovered servers, switches appear now under the collection upon discovering the Onboard Administrator along with the logical nodes. Some of the logical nodes are merged automatically with the previously discovered servers and switches.

8. To discover the **more** servers & switches, run a Manual/Automatic discovery with the Server, Server iLO2, and Switch DNS name or IP Address. After discovering the servers and switches; the associated servers (iLO2→Server, Server→Enclosure) and switches (switches→Enclosure) will appear under **All c-Class Enclosures** collection. These servers and switches get merged with the Logical nodes created during the OA discovery.

NOTE: The discovery can be executed by providing the IP address of the devices using the **Automatic or Host Files** tab available in the Discovery page. The host file should contain the IP address, full DNS name and hostname. This option is more suitable when there are multiple devices available in the network. Prefix (\$) dollar sign to the host file name while running the Discovery task.

For more information

Refer to the following for more information regarding the topics referenced in this paper. HP Blade System Integrated Manager <u>http://h18004.www1.hp.com/products/servers/management/bsme/index.html</u> HP Blade Systems <u>http://www.hp.com/go/bladesystemupdates/</u>

HP Systems Insight Manager http://ww.hp.com/go/hpsim

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