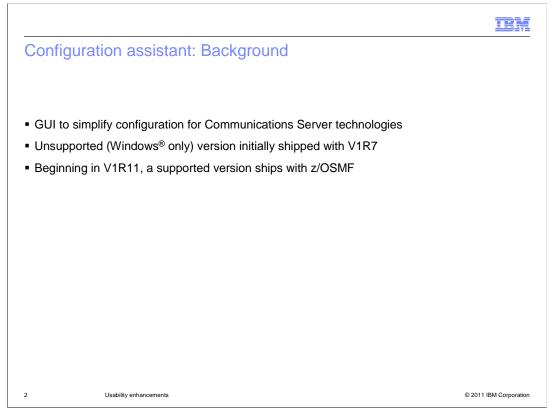


This presentation describes the usability enhancements in z/OS[®] V1R13 Communications Server. Three enhancements fall within the simplification theme. The enhancements involve Configuration Assistant support for multiple releases, multiple stacks, and for the discovery of stack IP addresses.



The IBM Configuration Assistant for z/OS Communications Server is a graphical user interface (GUI) that simplifies configuration of many Communications Server technologies. It initially shipped for V1R7 and was included in z/OS Management Facility V1R11, which was the first release of z/OSMF.

Multiple	z/OS Commi	inications Server rele	ases: Introd	uction	IBM
	nage: Information			uction	
Description: :/OS release:	VIR13 VIR13 VIR12	OK Cancel Help 2			
		VIR13 Configuration Assist File Edit Perspective Help Main Perspectiv Navigation tree	/e	ad-Write) = C:\b	ackingstore
		Z/OS Images ☐ ☐ Image - IMAGE1 ☐ ⑤ Stack - TCPCS ☐ ⑥ Image - IMAGE2 ☐ ⑥ Stack - TCPCS	Description: z/OS release:	VIR13	
			Select the technology AT-TLS DMD	logy you want to cor Status Disabled Disabled	figure and click Descript Applicat

Beginning in z/OS V1R13, the Configuration Assistant makes it easer to manage a diverse environment by supporting the configuration of multiple z/OS Communications Server releases. You no longer have to maintain multiple installations of z/OSMF in order to manage multiple releases.

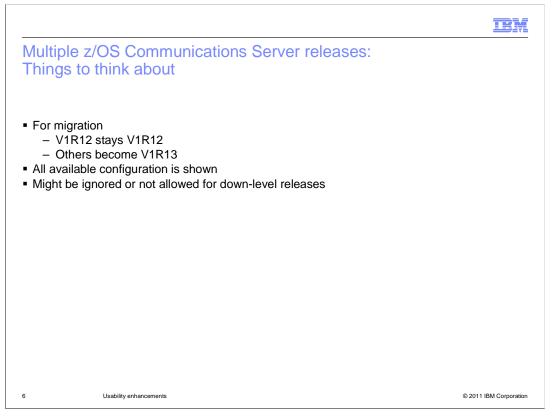
In V1R13, the Configuration Assistant supports both V1R13 and V1R12 configuration. The pictures on this slide show that you can select the release level for a new image and change the release level for an existing image.

	IBM
Multiple z/OS Communications Server releases: Reusable obj	ects
🦉 New Attack Details - Data Hiding	
Available beginning with V1R13.	
Attack rule name: * DataHiding	
Enable checking of IP option pad fields	
Enable checking of embedded packets within ICMP error messages	
OK Cancel Help ?	
 Reusable objects can apply to all releases 	
 Settings not applicable to a release are ignored 	
4 Usability enhancements © 2	011 IBM Corporation

Reusable objects have settings that are applied to multiple TCP/IP stacks. The stacks can be either V1R12 or V1R13. If reusable objects have any to configuration that is not applicable the release of the stack using the object, it is ignored. It is possible the configuration can be rejected and not allowed.

Image Release Chang	ge Report		 a. n <u>-</u> e
		V1R12. Some settings that are available for V1 s Server configuration file that is generated. The	
TCP/IP Stack: TCPC	S		
	~		
Technology: IDS			
Selected requirement map: IDS_	Default		
		CP/IP stack is at level V1R12. The attack is foured with this attack, but the attack will be	
	e requirement map is coni	figured with this attack, but the attack will be	
not available for V1R12 stacks. The ignored because the requirement ma	e requirement map is cont ap is selected for a V1R1	figured with this attack, but the attack will be 2-level stack.	
not available for V1R12 stacks. The ignored because the requirement ma Attack Type	e requirement map is con ap is selected for a V1R1 Rule Name	figured with this attack, but the attack will be 2-level stack. Ignored Settings	
not available for V1R12 stacks. Th ignored because the requirement mi Attack Type Data Hiding Attack IPv6 Outbound Raw Attack	e requirement map is cont ap is selected for a V1R1 Rule Name DataHiding IPv6OutboundRaw	figured with this attack, but the attack will be 2-level stack. Ignored Settings Attack type not available; the rule is not used	
not available for V1R12 stacks. Th ignored because the requirement mi Attack Type Data Hiding Attack IPv6 Outbound Raw Attack	e requirement map is con ap is selected for a V1R1 Rule Name DataHiding IPv6OutboundRaw IPv6DestinationOptions	figured with this attack, but the attack will be 2-level stack. Ignored Settings Attack type not available; the rule is not used Attack type not available; the rule is not used	
not available for V1R12 stacks. Th ignored because the requirement mi Attack Type Data Hiding Attack IPv6 Outbound Raw Attack IPv6 Destination Options Attack	e requirement map is con ap is selected for a V1R1 Rule Name DataHiding IPv6OutboundRaw IPv6DestinationOptions	figured with this attack, but the attack will be 2-level stack. Ignored Settings Attack type not available; the rule is not used Attack type not available; the rule is not used Attack type not available; the rule is not used	
not available for V1R12 stacks. Th ignored because the requirement mi Attack Type Data Hiding Attack IPv6 Outbound Raw Attack IPv6 Destination Options Attack IPv6 Hop-by-Hop Options Attack	e requirement map is con ap is selected for a V1R1 Rule Name DataHiding IPv6OutboundRaw IPv6DestinationOptions IPv6HopByHop	figured with this attack, but the attack will be 2-level stack. Ignored Settings Attack type not available; the rule is not used Attack type not available; the rule is not used Attack type not available; the rule is not used Attack type not available; the rule is not used	
not available for V1R12 stacks. Th ignored because the requirement mi Attack Type Data Hiding Attack IPv6 Outbound Raw Attack IPv6 Destination Options Attack IPv6 Hop-by-Hop Options Attack IPv6 Next Header Attack	e requirement map is con ap is selected for a V1R1 Rule Name DataHiding IPv6OutboundRaw IPv6DestinationOptions IPv6HopByHop IPv6NextHeader	figured with this attack, but the attack will be 2-level stack. Ignored Settings Attack type not available; the rule is not used Attack type not available; the rule is not used	
not available for V1R12 stacks. The ignored because the requirement mit Attack Type Data Hiding Attack IPv6 Outbound Raw Attack IPv6 Destination Options Attack IPv6 Hop-by-Hop Options Attack IPv6 Next Header Attack ICP Queue Size Attack	e requirement map is cont ap is selected for a V1R1 Rule Name DataHiding IPv6DoutboundRaw IPv6DestinationOptions IPv6DbopByHop IPv6NextHeader TcpQueueSize GlobalTCPStall	figured with this attack, but the attack will be 2-level stack. Ignored Settings Attack type not available; the rule is not used Attack type not available; the rule is not used	
not available for V1R12 stacks. Th ignored because the requirement ma Attack Type Data Hiding Attack IPv6 Outbound Raw Attack IPv6 Destination Options Attack IPv6 Hop-by-Hop Options Attack IPv6 Next Header Attack ICP Queue Size Attack Global TCP Stall Attack	e requirement map is conl ap is selected for a VIR1 Rule Name DataHiding IPv6OutboundRaw IPv6DestinationOptions IPv6NextHeader TcpQueueSize GlobalTCPStall EEMalformedPacket	figured with this attack, but the attack will be 2-level stack. Ignored Settings Attack type not available; the rule is not used Attack type not available; the rule is not used	
not available for V1R12 stacks. Th ignored because the requirement ma Attack Type Data Hiding Attack IPv6 Outbound Raw Attack IPv6 Doestination Options Attack IPv6 Noest Header Attack IPv6 Next Header Attack TCP Queue Size Attack Global TCP Stall Attack EE Malformed Packet Attack	e requirement map is conl ap is selected for a VIR1 Rule Name DataHiding IPv6OutboundRaw IPv6DestinationOptions IPv6NextHeader TcpQueueSize GlobalTCPStall EEMalformedPacket	figured with this attack, but the attack will be 2-level stack. Ignored Settings Attack type not available; the rule is not used Attack type not available; the rule is not used	

If settings are ignored, the Configuration Assistant issues warnings to make you aware of this.



When migrating prior release backing-store files into V1R13 Configuration Assistant, V1R12 level backing store files keep the releases for images at V1R12. For other release levels, the images are migrated to V1R13.

Regardless of the release level of an image or stack, all configuration settings are shown. Some settings available for only certain releases are noted. Settings not applicable to a release are either ignored or not allowed.

	TEM
Configuring multiple stacks: Introduction	
 Reusable rules Named variables Local IP address Local IKE identity 	
7 Usability enhancements	© 2011 IBM Corporation

IPSec is an example of a technology which is supported by the Configuration Assistant. IPSec is configured by creating a set of rules for each TCP/IP stack. Each stack might have a large number of rules, and many of these rules are exactly the same on each stack except for the local IP addresses. You can have a lot of rules to manage, and if an update is required, it might need to be done for all stacks.

Beginning in V1R13, the Configuration Assistant supports common configuration of multiple stacks. This introduces a new reusable object called rules. Reusable rules are created a single time and assigned to one or more TCP/IP stacks. If a reusable rule needs to be updated, only a single rule needs to be modified and the changes are propagated to all stacks.

In some cases, local IP addresses and internet key exchange (IKE) identities can be shared among multiple stacks. For example, dynamic virtual IP addresses (DVIPAs) share IP addresses. In other cases, local IP addresses and IKE identities can differ from stack to stack. Reusable rules can reference variable names for both local IP addresses and IKE identities, and these names can be assigned different values for each stack.

VIR13 Configuration Assist le Edit Perspective Help	ant - Backing Store (K	ead-Write) = C:\bac	kingstore\Education			
PSec Perspecti	ve					
avigation tree						
IPSec IPSec IPSec		on for each reusable rule		1		
Traffic Descriptors	Local/Source %osa	Remote/Destination 8.8.8.8	Requirement Map CICS	Topology Host to Host	Status Enabled	Name ToBranchOffice
H <u>aldes</u> TOS Trages Trage - IMAGE1 Stack - TCPCS Stack - TCPCS Stack - TCPCS Stack - TCPCS						
	Add	Copy Mo	odify Basics Delet	te View Details	Move U	p Show Where Used
		Copy Mo	odify Basics Delet	te View Details	Move U	p Show Where Used

The image on the slide illustrates the new IPsec reusable rule object. You can create reusable rules by clicking on the Rules node in the navigation tree and clicking the Add button. A wizard will walk you through the creation of the rule the same as if creating connectivity rules in a TCP/IP stack. You can create reusable rules for both filtering and for dynamic tunnels.

Note that the reusable rule shown on this slide uses the name %osa for the local IP address. Later on you will see how this local address name is mapped to specific IP addresses on each stack.

			IRM
Configuring mul	Connectivity Rules Lc Connectivity Rules Lc TCP/IP stack name: * Description: z/OS release: V: Click the Add button	ocal Identity Stack Settings Local Addresses 1	KE Symbols 1 stack. Topology
			Reusable rule: ToBranchOffice Special case: Mobile User
9 Usability enh	ancements		© 2011 IBM Corporation

You can add a reusable rule to an individual stack by selecting the stack tree node and clicking the Add button below the list of connectivity rules. Then select the Reusable rule radio button, and choose the reusable rule name from the drop-down list.

V1R13 Configuration Assista le Edit Perspective Help	ant - Backing Store (Read-Write) =	C:\bac	cingstore\Education			
PSec Perspecti	ve						
lavigation tree		les Local Identit	y Stack:	Settings NSS Local Addr	esses IKE Symbols		
🔁 IPSec	TCP/IP stack na	1					
Reusable Objects	17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -						
 France Descriptors Security Levels 	Description:						
Address Groups	z/OS release:	¥1R12					
Requirement Maps							
Rules							
🖹 🗀 z/OS Images	Click the Add I	button for each co	onnectivity	rule you want to add to th	nis stack.		
😑 🚞 Image - IMAGE1	Local/Source	Remote/De	estination	Requirement Map	Topology	Status	Name
Stack - TCPCS	%osa	8.8.8.8		CICS	Host to Host	Enabled	(R) ToBranchOffice
	1.1.1.1	2.2.2.2		CICS	Host to Host	Enabled	(R) 0
Image - IMAGE2	1.2.3.4	9.9.9.9		CICS	Host to Gateway	Enabled	1
		i ma internetione		gw-	Gateway to Host	Enabled	2
Stack - TCPCS	All_IPV Add				Gateway to Gateway	Enabled	3
Stack - TCPCS	All_IPv Add		dresses				
· Stack - TCPCS	All_IPv Add %osa Mod	dify		Filtering	Filtering - Host	Enabled	4
Stack - ICPCS	All_IPv Add %osa Mod 8.9.7.6 Mod	dify lify Wizard	dresses	Filtering gw_fil	Filtering - Host Filtering - Gateway	Enabled	5
Stack-TCPCS	All_IPv %osa 8.9.7.6 Mod 8.2.5.2 Cop	dify lify Wizard y		Filtering gw_fil gw_fil	Filtering - Host Filtering - Gateway Filtering - Either	Enabled Enabled	5
⊶ ⊕ stack+ TCPCS	All_IPv %osa 8.9.7.6 Mod 8.2.5.2 Cop %subn Dele	dify Iify Wizard y ste	dresses dresses	Filtering gw_fil gw_fil man	Filtering - Host Filtering - Gateway Filtering - Either Host to Host	Enabled Enabled Enabled	5 6 7
Statk+ (CPCS)	All_IPv %osa 8.9.7.6 Mod 8.2.5.2 Cop	dify Iify Wizard y ste	dresses	Filtering gw_fil gw_fil man	Filtering - Host Filtering - Gateway Filtering - Either	Enabled Enabled	5
⊶ ⊕ stack- TCPCS	All_IPv %osa 8.9.7.6 Mod 8.2.5.2 Cop %subn Dele	dify Iify Wizard Y ste	dresses dresses	Filtering gw_fil gw_fil man	Filtering - Host Filtering - Gateway Filtering - Either Host to Host	Enabled Enabled Enabled	5 6 7
← ● stack + TCPCS	All_IPV %osa 8.9.7.6 Mod 8.2.5.2 Cop %subn Dele All_IPV Cut Past	dify Iify Wizard Y ste	dresses dresses dresses	Filtering gw_fil gw_fil man CICS	Filtering - Host Filtering - Gateway Filtering - Either Host to Host	Enabled Enabled Enabled	5 6 7 8
⊶ statk • ICPCS :	All_IPV %osa 8.9.7.6 Mod 8.2.5.2 Cop %subn Dele All_IPV Cut Past Ac Mov	dify Iify Wizard Y ste	dresses dresses dresses	Filtering gw_fil gw_fil cICS dify Basics De	Filtering - Host Filtering - Gateway Filtering - Either Host to Host Host to Host	Enabled Enabled Enabled Enabled Move t	5 6 7 8 Up Health Check
Statk - ICPCS	All_IPv %osa 8.9.7.6 Mod 8.2.5.2 Cop %subn Dele All_IPv Cut Action Act	dify Ify Wizard y vte e e Up e Down	dresses dresses dresses	Filtering gw_fil gw_fil man CICS	Filtering - Host Filtering - Gateway Filtering - Either Host to Host Host to Host	Enabled Enabled Enabled Enabled	5 6 7 8 Up Health Check
⊶ ⊕ srack • ICPCS :	All_IPv %osa 8.9.7.6 Mod 8.2.5.2 Cop %subri All_IPv Cut Pasta Ac Mov View	dify Jify Wizard y ete ete Up re Up re Down v Details	dresses dresses dresses	Filtering gw_fil gw_fil cICS dify Basics De	Filtering - Host Filtering - Gateway Filtering - Either Host to Host Host to Host	Enabled Enabled Enabled Enabled Move t	5 6 7 8 Up Health Check
⊶	All_PV Add %osa Mod 8.9,7,6 Mod 8.2,5,2 Cop %subh Cup All_PV Cut Past Ad Ad Mov View Prast	dify lify Wizard Y te te e Up re Down y Details ble Rule	dresses dresses dresses	Filtering gw_fil gw_fil cICS dify Basics De	Filtering - Host Filtering - Gateway Filtering - Either Host to Host Host to Host	Enabled Enabled Enabled Enabled Move t	5 6 7 8 Up Health Check
⊶ ♥ Statk-TUPCS	All_PV Add %osa Mod 8.9,7,6 Mod 8.2,5,2 Cop %subh Cup All_PV Cut Past Ad Ad Mov View Prast	dify Jify Wizard y ete ete Up re Up re Down v Details	dresses dresses dresses	Filtering gw_fil gw_fil cICS dify Basics De	Filtering - Host Filtering - Gateway Filtering - Either Host to Host Host to Host	Enabled Enabled Enabled Enabled Move t	5 6 7 8 Up Health Check

Reusable rules appear in a stack's list of connectivity rules alongside stack-specific connectivity rules. The reusable rules are identified with the blue (R) symbol as shown on this slide. You can change the order of reusable rules just like stack-specific connectivity rules.

To help you migrate from stack-specific rules to reusable rules, you can change a stack rule into a reusable rule. To do this, select a stack-specific rule and click Make Reusable. A copy of the stack rule is added to the reusable rule set. The stack rule will remain in place, but is marked as derived from a reusable rule. The (R) symbol will now appear to indicate this rule is a reusable rule.

, VIRIS Configuration Assist ile Edit Perspective Help	ant - Backing Store (Rea	ad-Write) = C:\\	back	ingstore\Education			
PSec Perspecti	Personal Antonio Antoni	Local Identity St	ack S	ettings NSS Local Addresse	S IKE Symbols		
IPSec Reusable Objects Traffic Descriptors Scurkty Levels Address Groups Requirement Maps Nieles	TCP/IP stack name: Description: z/OS release:	V1R12					
🖻 🗁 z/OS Images 🖻 🗀 Image - IMAGE1	Click the Add but			rule you want to add to this s Requirement Map	tack. Topology	Status	Name
Grage - IMAGE1 Stack - TCPCS Grade - IMAGE2 Grade - Stack - TCPCS	1.2:3.4 All_JPv4_A Mod All_JPv4_A Cop %osa Dele %osa Dele 8.9.7.6 Cut 8:3.7.6 Cut All_JPv4_A Mod Mathematical Action All_JPv4_A Mod Mod	d ify Jify Wizard Y ste	sses sses	CICS CICS CICS gw Fikering gw, fil gw, fil cicS CICS CICS CICS CICS CICS	Host to Host Host to Alext Host to Gateway Gateway to Alext Gateway to Gateway Filtering - Host Filtering - Gateway Filtering - Gateway Filtering - Either Host to Host Host to Host View Details	Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled	(R) Tolkranchoffice (R) 0 1 2 3 4 5 6 7 7 8 Health Check
	Disa	ble Rule ble Rule e Reusable	Mod	lify Wizard		Move Do	wn

You might need to change a rule setting, but only on a specific TCP/IP stack. For example, you might want to change the filter logging settings on one stack without impacting other stacks.

If the rule you want to change is a reusable rule, you have the option to change it to a stack-specific rule. After the change, the rule will remain in the stack, but is marked as no longer derived from a reusable rule. The reusable rule will remain in the set of reusable rules, but it will no longer be associated with the stack-specific rule.

If this change is temporary, you can later delete the stack-specific rule and add the reusable rule back to the stack.

		IBN
Configuring mu	Itiple stacks: Loca	al IP address names
File Edit Perspective Help	ant - Backing Store (Read-Write) = C	:\backingstore\Education
IPSec Perspect	Connectivity Rules Local Identity	Stack Settings Local Addresses IKE Symbols NS
IPSec Reusable Objects Traffic Descriptors Security Levels Address Groups Requirement Maps Ules	IP Address 1.1.1.1	Name OSa
Contractions of the second se	File Edit Perspective Help IPSec Perspectivi Navigation tree	ant - Backing Store (Read-Write) = C:\backingstore\Education VE Connectivity Rules Local Identity Stack Settings Local Addresses TKE Symbols N
	Dec 195ec	IP Address Name
	Ceusable Objects Traffic Descriptors Security Levels Address Groups Requirement Maps Rules ZOS Images	2.2.2.2
2 Usability e		Add Modify Delete View Details Show Where L

Some reusable rules might have the same local IP address for each stack; this is true for a DVIPA or a distributed DVIPA. But other rules might have different local IP addresses for each stack. In order for reusable rules to be used for this case, you can assign variable names to local IP addresses, and assign different values for these addresses on each stack.

After selecting a stack in the navigation tree, the Local Addresses tab shows all address names known to the Configuration Assistant. You can add new names and assign values to existing names in this tab. Once a name is configured for one stack, that name is available to all stacks.

The images on this slide show that the name "osa" is assigned different values for two different stacks.

Configuring multiple stacks: Address nam	ES in rules
New Connectivity Rule - Data Endpoints Velcome Typical Rule Velconk Requirement Map Local Security Endpoint Brenote Security Endpoint Special Case: Mobile User Special Case: Mobile User	Remote data endpoint Address group: All IPv4_Addresses New Copy f O IPv6 addres +
13 Usability enhancements	© 2011 IBM Corporation

When a local address name is configured, you can choose it as the local data endpoint for a connectivity rule. Local address names can be configured in both reusable rules and stack-specific connectivity rules.

If you use a local address name in a reusable rule which is assigned to several stacks, the name resolves to the unique IP address assigned to that name on each stack.

I	BM
Configuring multiple stacks: Address names in groups	
M New IP Address Group	
9.37.236.137 4.98.124.187 Use this panel to configure a group of IP addresses.	
5.96.158.184 2.45.197.242 Name: * localAddresses	
3.15.141.211 Description: 7.37.253.241	
8.63.138.187	
Type an IP address, range, or subnet directly into the table below or clig	
osa	
P-address single subnet	
V4	
v6	
Add More Rows Select Local Address Name	
Usability enhancements © 2011 IBM Co	orporation

You can also add address names to address groups. Address groups containing local address names can be chosen as the local data endpoint for both reusable rules and stack-specific rules. You can type the local address names directly into the table, or select the name by clicking Select Local Address Name. On this slide, the local IP address name "osa" is included in the address group "localAddresses."

Configuring mul	tiple stacks: Local I	E identities	BM
VIR13 Configuration Assistan File Edit Perspective Help IPSec Perspectiv	rt - Backing Store (Read-Write) = C:\back	singstore\Education	
Navigation tree	Connectivity Rules Local Identity Stack: Type Value IKE Identity IP Address: 1.1.1.1 V1R13 Configuration Assistant File Edt Perspective Help IPSec Perspective	- Backing Store (Read-Write) = C:\backingstore\Education	
	Navigation tree	Connectivity Rules Local Identity Stack Settings Local Addresses IKE 5	mbols
		Type Value Name IKE Identity User ID @ FQDN: user1@f.q.d.n LocalIkeIdentity Add Modify Delete View Details Sho Main Dercretion 0 Sho Sho	w Where
15 Usability ent	nancements	© 2011 IBM C	orporatio

Just as with local IP addresses, it is likely that you will configure different local IKE identities for each stack that uses a reusable rule. You can therefore assign variable names to local IKE identities, and assign different values for these identities on each stack.

After selecting a stack in the navigation tree, the IKE Symbols tab shows all IKE identities known to the Configuration Assistant. You can add new names and assign values to existing names in this tab. Once a name is configured for one stack, that name is available to all stacks.

The images on this slide show that the name "Locallkeldentity" is assigned different values for two different stacks. Note that the identities do not have to share the same identity type on each stack.

Con	figuring multiple s	stacks: Identity names in rules
	New Connectivity Rule - Local Welcome Typical Rule Wetwork Topology Data Endpoints Data Endpoints Local Security Endpoint Manual Tunnel Keys Special Case: Mobile User Special Case: IP V6 OSPF IP Security Finish	Security Endpoint Local Security Endpoint Use this panel to enter information about the IPSec local security endpoint for Host To Host topology.
16	Usability enhancements	© 2011 IBM Corporation

When a local IKE identity is configured, you can choose it as the local security endpoint identity for a connectivity rule. Local IKE identities can be configured in both reusable rules and stack-specific connectivity rules.

If you use a local identity name in a reusable rule which is assigned to several stacks, the name resolves to the unique IKE identity assigned to that name on each stack.

		IBM
Disco	very of stack IP addresses: Introduction	
	Rules Local Identity Stack Settings NSS Local Addresses IKE Symbols]
	Image: Select Action • Se Add N Modify Delete View Delails Show Where Used Discover Table Actions *	
17	Usability enhancements ©	2011 IBM Corporation

With the introduction of reusable rules and local IP address names, the Configuration Assistant also supports the discovery of IP addresses for each stack. Thus, you can avoid manually entering IP addresses for your reusable rules.

The discover function is only available on z/OSMF. It is not available in the Configuration Assistant workstation GUI. You can initiate the discovery process from the Local Addresses tab for a stack by choosing the Discover action, as shown on this slide.

				IBM
Discov	ery of stack IP a	ddresses: Disco	overy	
	Discover Stack Local Address			
	Image:	VIC136		
	Stack: Host connection	TCPCS1		
	*Host name:			
	*Port: 163	11		
	*User name:	*Password:	Save password	
	Use SSL			
	Click Go to begin discovery			
	Go View Report			
	Close			
18	Usability enhancements			© 2011 IBM Corporation

When you select the discover action, the Discover Stack Local Addresses panel is displayed. Because the discover function is invoked while you are editing a stack, the image and stack names are already known, as shown on the panel. You fill in the connection information to connect to the Policy Agent and select the Go button. The Policy Agent must be active and configured with the ServicesConnection statement in order to successfully connect. This is the same Policy Agent configuration statement you use for the Policy Data Import function.

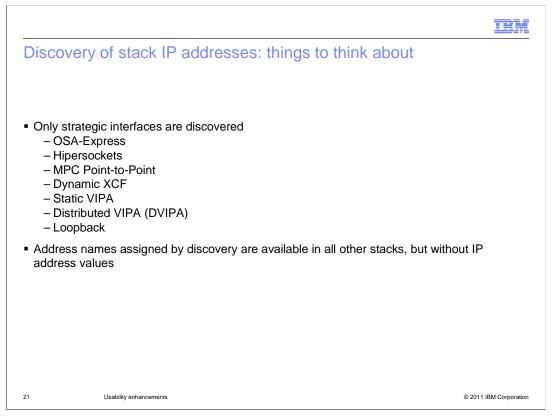
You will see a message when the discovery function completes, indicating success or failure. In some cases, IP addresses cannot be added to the Local Addresses tab, for example when a name is already used for another IP address. The message will indicate any such failures and the discovery report will contain more detail. You can access the discovery report by clicking the View Report button shown here.

ery of s	stack IP addre	sses: Dis	covery report	
· ·				
Discourse				
	y Local Addresses S	111 111		
The following (data set names were used to dis	cover local address in	formation:	
	TCPPARMS(TCPCS1)			
	TCPPARMS(VPADEF1) TCPPARMS(TCPCS1B)			
CS390.BASE.T	TCPPARMS(TN3270S1)			
	RMS(TCPCS1) TCPPARMS(STRTDEV1)			
00000.BAGE.1	(CFFARMS(STRTDEVT)			
			he local addresses tab. The associated	
-	es were used as the local addres	P	Discovered Information	
	Local Address Name		Discovered mormation	
IP Addr	DVNVCEA	Type-Dypamic VCE	Namo-DVNVCE4	
10.61.0.1	DYNXCF4	Type=Dynamic XCF,		
10.61.0.1 2001:db8:10:	::61:0:1 DYNXCF6	Type=Dynamic XCF,	Name=DYNXCF6	
10.61.0.1 2001:db8:10: 127.0.0.2	::61:0:1 DYNXCF6 LOOPBACK	Type=Dynamic XCF, Type=Loopback, Nar	Name=DYNXCF6 ne=LOOPBACK	
10.61.0.1 2001:db8:10:	::61:0:1 DYNXCF6	Type=Dynamic XCF,	Name=DYNXCF6 ne=LOOPBACK	
10.61.0.1 2001:db8:10: 127.0.0.2 10.81.1.1	::61:0:1 DYNXCF6 LOOPBACK	Type=Dynamic XCF, Type=Loopback, Nar	Name=DYNXCF6 ne=LOOPBACK	
10.61.0.1 2001:db8:10: 127.0.0.2	::61:0:1 DYNXCF6 LOOPBACK	Type=Dynamic XCF, Type=Loopback, Nar	Name=DYNXCF6 ne=LOOPBACK	
10.61.0.1 2001:db8:10:: 127.0.0.2 10.81.1.1	61:0:1 DYNXCF6 LOOPBACK VIPA4811L	Type=Dynamic XCF, Type=Loopback, Nar Type=Static VIPA, Na	Name=DYNXCF6 ne=LOOPBACK	
10.61.0.1 2001:db8:10: 127.0.0.2 10.81.1.1 The following II	61:0:1 DYNXCF6 LOOPBACK VIPA4811L	Type=Dynamic XCF, Type=Loopback, Nar Type=Static VIPA, Na t, and were added to t	Name=DYNXCF6 ne=LOOPBACK me=VIPA4811L	_1
10.61.0.1 2001:db8:10: 127.0.0.2 10.81.1.1 The following II	P addresses did not already exis	Type=Dynamic XCF, Type=Loopback, Nar Type=Static VIPA, Na t, and were added to t shown in the table.	Name=DYNXCF6 ne=LOOPBACK me=VIPA4811L	
10.61.0.1 2001:db8:10: 127.0.0.2 10.81.1.1 The following II names were n IP Address	P addresses did not already exis	Type=Dynamic XCF, Type=Loopback, Nar Type=Static VIPA, Na t, and were added to t shown in the table.	Name=DYNXCF6 ne=LOOPBACK me=VIPA4811L he local addresses tab. The associated interface	a.
10.61.0.1 2001:db8:10: 127.0.0.2 10.81.1.1 The following II names were n IP Address 127.0.0.3	IDYNXCF6 LOOPBACK VIPA4811L IP addresses did not already exis of used, because of the reasons Discovered Informat	Type=Dynamic XCF, Type=Loopback, Nar Type=Static VIPA, Na t, and were added to tt shown in the table. on INCK The int	Name=DYNXCF6 ne=LOOPBACK me=VIPA4811L he local addresses tab. The associated interface Reason	
10.61.0.1 2001:db8:10: 127.0.0.2 10.81.1.1 The following I names were n IP Address 127.0.0.3 127.0.0.4	BYNXCF6 LOOPBACK VIPA4811L P addresses did not already exis of used, because of the reasons Discovered Informat Type=Loopback, Name=LOOPB	Type=Dynamic XCF, Type=Loopback, Nar Type=Static VIPA, Na t, and were added to th shown in the table. on CK The int CK The int	Name=DYNXCF6 ne=LOOPBACK me=VIPA4811L he local addresses tab. The associated interface Reason erface name is already used as a local address name	

This slide shows parts of a discovery report. This report is available at any time by selecting the History action from the main Action menu. The report shows details of the connection, the complete list of TCP/IP configuration data sets, and details about all of the interfaces. It also includes details about cases where the interface name cannot be used.

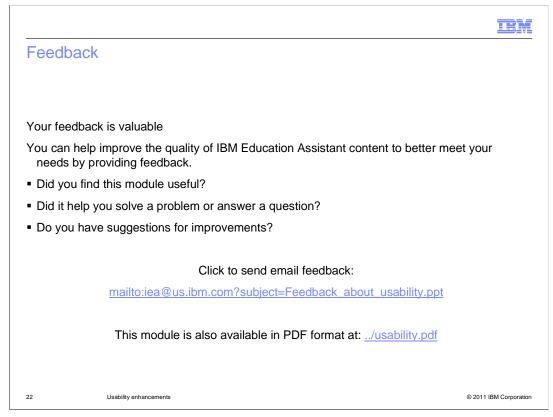
	Local Identity	Stack Settings	NSS Local Addresses	IKE Symbols	
54	elect Action 🔻	1			
	IP Address	Name	Discovered Information		
0	2001:db8:10::92:1:1	VIPA6921	Type=Dynamic VIPA Define, N	ame=VIPA6921	^
0	2001:db8:10::91:1:1	VIPA6911	Type=Dynamic VIPA Define, N	ame=VIPA6911	
Õ	10.71.0.0/16		Type=Dynamic VIPA Range		
0	10.91.3.3		Type=Dynamic VIPA Backup, b	backup rank=100	
Õ	10.93.1.1/24		Type=Dynamic VIPA Define		
0	10.92.1.1/24		Type=Dynamic VIPA Define		
Õ	10.91.1.1/24		Type=Dynamic VIPA Define		
Õ	::14:0	LOOPBACK6	Type=Loopback, Name=LOOP	PBACK6	
0	2001:db8::/64	MPC1IPV6	Type=MPC, Name=MPC1IPV6		
0	2001:db8:172::16:2:1	QDI06201	Type=OSAD, Name=QDIO620	1	
0	2001:db8:172::16:1:1	QDI06101	Type=OSAD, Name=QDIO610	1	~

This slide has an example of the Local Addresses tab after performing the discovery process. Addresses associated with an interface or VIPA are assigned its name as their local address name. Other addresses are imported without a name, but you can assign names to them. Additional information discovered about these addresses is shown in the Discovered Information column.



Only the interface types listed on this slide are recognized by the discovery process. Nonstrategic interfaces such as CLAW and LCS are not subject to discovery.

When you use the discovery function on a given stack, you will have IP addresses with names assigned to most or all of the addresses. Address names are common to all stacks, so you will see those names appear on other stacks. When you use the discovery function on any stack that already contains names without assigned values, the Configuration Assistant will update the IP address values for all address names that match discovered interface names.



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