System z



Open Systems Adapter-Express Integrated Console Controller 3215 Support

System z



Open Systems Adapter-Express Integrated Console Controller 3215 Support

Note!

Before using this information and the products it supports, be sure to read the general information under "Notices" on page 31.

First Edition (January 2009)

This edition, SA23-2247-00, refers to the IBM Open Systems Adapter-Express Integrated Console Controller for the following operating systems: z/OS Version 1 Release 2 or higher (5694-A01), and z/OS.e Version 1 Release 3 or higher (5655-G52), Open Systems Adapter Support Facility for z/Virtual Machine/Enterprise (z/VM) Version 3 Release 1, Version 4 Release 2 (Program Number 5654-A17), and Version 4 Release 3 or higher (Program Number 5739-A03), OSA/SF for VSE Version 2 Release 2 (part of VSE Central Functions 6.1.1, 5686-066) in VSE/ESA Version 2 Release 2.6 (5690-VSE) or higher, and to all subsequent releases and modifications until otherwise indicated in new editions or technical newsletters.

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About this Document

This document describes the configuration process for the Open Systems Adapter-Express Integrated Console Controller 3215 support. It is intended to be used with *eserver zSeries z890 and z990 Open Systems Adapter-Express Integrated Console Controller User's Guide*, SA22-7990.

Who Should Use This Document

This document is intended for the technical staff who will configure the Open Systems Adapter-Express Integrated Console Controller.

Where to Find More Information

This document contains all the instructions necessary to set up the Open Systems Adapter-Express Integrated Console Controller support for the 3215 data stream. In some instances, there are references to other publications for detailed information.

Notes:

- 1. eserver zSeries z890 and z990 Open Systems Adapter-Express Integrated Console Controller User's Guide, SA22-7990, describes the configuration process for the Open Systems Adapter-Express Integrated Console Controller.
- 2. *z/OS V1R10.0 HCD Planning*, (GA22-7525-13), describes how to define an I/O configuration using Hardware Configuration Definition (HCD).
- 3. *TPF V4R1 Program Directory*, (GI11-0418-02), is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of the TPF 4.1 product.

A Note on Terminology

Throughout this publication, certain equipment terms and short versions of product names are used to make the information more easily understood. These are:

CS Communications Server

1000Base-T

1000Base-T Ethernet feature capable of 10, 100, or 1000Mbps

- **GbE** Gigabit Ethernet feature
- **OSA** Abbreviation for Open Systems Adapter (OSA-Express and OSA-2) feature.

OSA-Express

Abbreviation for Open Systems Adapter-Express features.

OSA-ICC

Abbreviation for Open Systems Adapter-Express Integrated Console Controller features.

- **OSC** The channel type name for OSA-Express features that are configured as Open Systems Adapter-Express Integrated Console Controller.
- **OSD** The channel type name for OSA-Express features that run under Queued Direct Input/Output architecture (QDIO).
- **OSE** The channel type name for OSA-Express features that do not use QDIO architecture (typically SNA/APPN/HPR applications).

OSN The channel type name for OSA-Express2 features that use QDIO architecture and CDLC protocol.

PCOMM

The Host Access Client Package which includes the eNetwork Personal Communications V5.6 emulator.

TOS TPF Operations Server.

Summary of Changes

Summary of Changes for SA23-2247-00

This is the initial release of the document.

Chapter 1. Introduction

The IBM[®] Open Systems Adapter-Express Integrated Console Controller (OSA-ICC) is the replacement for 2074 Console Support Controller and local, non-SNA DFT 3174 Control Units. Its primary application is to provide 3270 sessions so you can IPL your logical partitions within any channel subsystem (CSS) and to provide System Operator/Master consoles for z/OS[®], z/OS.e, z/VM[®], TPF, and VSE. OSA-ICC now provides support for 3215 sessions with the z/TPF master console.

The OSA-ICC is one port on an Open Systems Adapter-Express (OSA-Express) 1000Base-T Ethernet feature. An OSA-Express 1000Base-T feature has 2 ports and either or both can be configured as an OSA-ICC. OSA-ICC function is included with your OSA-Express 1000Base-T feature as Licensed Internal Code and you can enable it by defining the channel path type as OSC.

OSA-ICC 3215 provides console controller support for the 3215 line mode data stream. For the 3215 function, OSA-ICC receives a channel program with 3215 data stream from z/TPF and transmits this data to the remote TCP/IP clients. The TPF Operations Server is a client to the OSA-ICC; it communicates with z/TPF indirectly through OSA-ICC.

OSA-ICC provides support for 3270 and 3215 data streams, however, one OSA-ICC PCHID can support only one of these two data streams. Based on the IOCDS configuration, a particular PCHID will either have 3270 devices and provide support for the 3270 data stream, or it will have 3215 devices and provide support for the 3215. One physical OSA-Express2 card can have two PCHIDs, either of which can be defined as 3270 or 3215. In IOCDS, OSA-ICC PCHID is defined as OSC; however, 3215 will have new CHPID channel parm defined. This distinguishes it from a 3270 data stream.

Quick facts

Here is a summary of the things you need to know about this 3215 support:

- The hardware platform for OSA-ICC 3215 is the OSA-Express2 1000BaseT feature.
- A new OSC CHPID channel parm has been defined to isolate 3215 streams from 3270 streams.
- A maximum of 32 concurrent console sessions are supported.
- This function has been developed for z9. Support for z990 is not provided.
- A new set of Advanced facilities panels have been created for this support. See Chapter 3, "Configuration," on page 5 for more information.
- · 3215 support over OSA-ICC is needed for TPF operating system consoles only.

Configuration checklist

The following needs to be done to configure OSA-ICC 3215 support:

- IOCDS change
- SE/HMC panels
- TPF Operations Server configuration steps

Chapter 2. Setup/Initialization

This section describes the setup and initialization steps for 3215 support. Initializing and setting up OSA-ICC for 3215 support involves the following:

- · Installing and enabling the RPQ
- · Defining the OSC CHPID channel parm
- Configuring ICC for 3215 support
- Configuring TOS

Installing and enabling the RPQ

The OSA-ICC 3215 support is delivered as an RPQ. To install the RPQ, do the following from the SE or HMC (reference Figure 1 for this procedure):

- 1. Highlight your system on the CPC Work Area.
- 2. From the right panel, scroll to the CPC Configuration and select the Perform Model Conversion icon.
- 3. From the Perform Model Conversion panel, select the Features option. When this option is expanded , it displays the Add OSA 3215 and Remove OSA 3215 options. These options are added with the SE/HMC MCLs for 3215.
- From the expanded Features option, enable the 3215 RPQ by selecting Add or Update OSA 3215 and following the online instructions, which will ask for a CD. This CD is built to order by IBM – it goes with specific machine's driver level and serial number

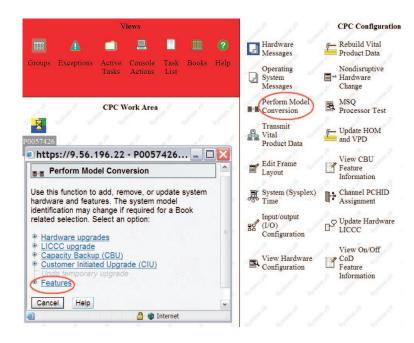


Figure 1. Installing the 3215 RPQ from the CPC work area

To display OSA-ICC 3215 selections under the "features," correct SE/HMC MCLs need to be installed.

Note: SE/HMC-specific panels for the OSA-ICC 3215 are not accessible before RPQ is installed. Trying to open these panels without RPQ being installed causes an error to be displayed. Without these panels, the ICC-3215 card is not configured and cannot be used for 3215 data stream console support.

Defining the OSC CHPID channel parm

There is an OSC CHPID channel parameter that isolates 3215 streams from 3270 streams.

For your system to recognize the OSC CHPID for 3215 support, you must define the CHPID in your Input/Output Configuration Dataset (IOCDS) through the Hardware Configuration Definition (HCD) or the Input/Output Configuration Program (IOCP).

You must define in the IOCDS each OSA-Express 1000Base-T port you wish to use. Each OSA-ICC function requires a unique CHPID, control unit, and device definition. These definitions are made using HCD or IOCP, which defines the OSA-Express feature to the I/O hardware configuration.

Here is the CHPID in OSA-ICC 3270 mode: CHPID PCHID=160,PATH=(CSS(0,1,2,3),60),TYPE=OSC,SHARED

Add **CHPARM=40** to the CHPID to put it into OSA-ICC 3215 mode: CHPID PCHID=160, PATH=(CSS(0,1,2,3),60), TYPE=0SC, SHARED, CHPARM=40

See eserver zSeries z890 and z990 Open Systems Adapter-Express Integrated Console Controller User's Guide for the steps to define an OSC CHPID with HCD and IOCP.

When configuring through HCD, UNIT parm should be set to 3215; this generates CHPARM=40. See *z/OS V1R10.0 HCD Planning*, (GA22-7525-13), for more informaiton.

Configuring ICC for 3215 support

Configuration is discussed in Chapter 3, "Configuration," on page 5. Specifically, you need to use the Advanced Facilities panels to do the following:

- Edit the server configuration for a given OSC. See "Edit server configuration" on page 16 for more information.
- Edit the session configuration to include a list of the sessions that are configured for the OSC and configuration information about each session. See "Edit sessions configuration" on page 14 for more information. Both server and session parameters can be configured via manual configuration option, as well.

When you have completed this step, the ICC is configured for 3215 support.

Configuring the TPF Operations Server

On the client side, you need to configure the TPF Operations Server. The setup procedures are done in TPF. See *IBM TPF Operations Server User's Guide* for more information.

Chapter 3. Configuration

This section describes configuration specific to 3215 support. This chapter also includes the following information:

- · A brief explanation of the configuration panels
- · Steps for accessing the Advanced Facilities panel
- The 3215-specific Advanced Facilities panels and their descriptions
- Configuring with manual editing
- **Note:** The OSA ICC 3215 configuration may get reset to default values when PCHID is defined in 3215 mode, re-defined in 3270 mode, and then back in to 3215 mode. In this case, the original 3215 configuration may get reset to default configuration. It is strongly recommended that you save the configuration file using the manual import/export function.

Structure of the configuration panels

Figure 2 shows the relationship of the panels that are accessed from the *Card Specific Advanced Facilities* panel. Panels that contain changes for 3215 support are shaded.

Note: Although the manual configuration, panels have not changed, the parameters and syntax of the manual configuration has changed for 3215 support.

Figure 2. The structure of the configuration panels. The shaded panels contain changes for 3215 support.

All Configuration operations are selected from the *Advanced Facilities* panel as shown in Figure 6 on page 8.

The following is a brief explanation of the tasks you can perform from each of these panels. The panels that contain changes for the 3215 support are noted.

Note: For a complete description of the 3215-specific panels and the meaning of their entry fields, see "OSA-ICC 3215-specific Advanced Facilities panels" on page 9. For a complete description of all Advanced Facilities panels, see eserver zSeries z890 and z990 Open Systems Adapter-Express Integrated Console Controller User's Guide

Run port diagnostics	This panel allows you to run diagnostics on the OSA-ICC channel.
View port parameters	This panel allows you to view Network Interface Card statistics.
View Code level	This panel is used to display level of code loaded into the card.
Set card mode (changed)	This panel is used to set the speed and mode of the OSC.
Display client connections (changed)	This panel is used to view client connection parameters.
Display active session configuration (changed)	This panel is used to display the active session configuration for a given OSC.

Configuration

Display active server configuration (changed)	This panel is used to display the active server configuration for a given OSC.
Panel configuration options (changed)	This panel allows you to edit session configurations (changed), edit server configurations (changed), validate panel values, and view any validate panel errors
Manual configuration options	This panel allows you to import a source file, export a source file, edit a source file, and validate a source file.
Activate configuration	This panel allows you to activate a configuration.
Display active configuration errors	This panel allows you to view any active configuration errors.
Debug utilities	This panel allows you to ping a client work station, trace the route of a packet of data to a client workstation, and drop a session.
Cancel command	This panel allows you to cancel a command which is executing on an OSC.

Steps for accessing the Advanced Facilities panel

Perform the following steps to get to the Advance Facilities panel. This example is using the Hardware Management Console. If you are using the SE, the initial panels to select the CHPID are different.

1. From the Defined CPCs Work Area, drag the selected processor to OSA Advanced Facilities.

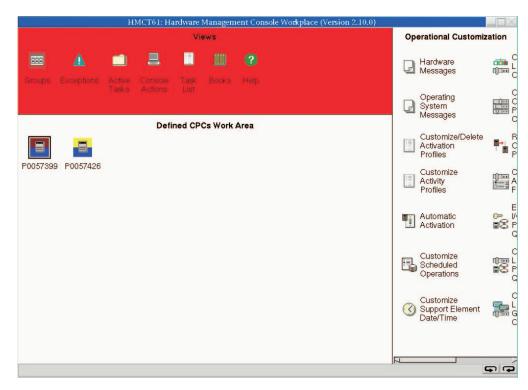


Figure 3. Hardware Management Console workspace panel

2. The OSA Advanced Facilities screen opens. Select the PCHID you wish to configure and select OK.

HMC	'T61: OSA Ac	lvanced Faciliti	es 📃 🗆 🗙
()	SA Advand	ed Facilities -	P0057426
Please	select a cha	annel ID and clic	ж "ОК".
Select	Channel ID	Channel Type	
e	0110	OSE	F
C	0111	OSE	
C	0120	OSD	
C	0121	OSD	1.1.1.1.1
C	0130	OSE	1
OK	Cancel He	qla	-

Figure 4. OSA Advanced Facilities panel

3. The *Standard Channel Advanced Facilities* panel will be displayed. Select *Card Specific Advanced Facilities* and click OK.

HMCT61:	OSA Advanced Facilities	
Advanced	Facilities - P0057426	
	0300	The first
Channel type:	OSC	
Card description: Select a function	OSA-Express2 1000BASE-T Eth and click "OK".	nemet
• View code lev	The all the second s	
	/dump facilities	
Card specific a	advanced facilities	
CReset to defa	ults	
OK Cancel		

Figure 5. Standard Channel Advanced Facilities

You should now see the *Advanced Facilities* panel.

HMCT61: OSA Advanced Facilities 📃 🗌 🔀
Advanced Facilities - P0057426
Channel ID: 0300
Lan port type: OSC-ICC 3215 for TPF
Select a function and click "OK".
○ <u>V</u> iew port parameters
<u>Run port diagnostics</u>
CSet card mode
Display client connections
C Display active sessions configuration
C Display active server configuration
Panel configuration options
Manual configuration options
C Activate configuration
Display activate configuration errors
C Debug utilities
OK Cancel

Figure 6. Advanced facilities panel

OSA-ICC 3215-specific Advanced Facilities panels

This section describes the following OSA-ICC Advanced Facilities panels that are specific to 3215 support:

- · Set card mode, see "Set card mode"
- *Display client connections, see "Display client connections" on page 10
- *Display active session configuration, see "Display active session configuration" on page 11
- *Display active server configuration, see "Display active server configuration" on page 13
- *Panel configuration option, see "Panel configuration options" on page 14
 - *Edit session configuration, see "Edit sessions configuration" on page 14
 - *Edit server configuration, see "Edit server configuration" on page 16

See eserver zSeries z890 and z990 Open Systems Adapter-Express Integrated Console Controller User's Guide for a complete description of all of the Advanced Facilities panels.

3215-specific panel entry descriptions

Configuring your OSA-ICC results in the creation of a session and server configuration file. You can create this file by entering data via panel entry or by manually editing the file. Panel entry requires that you move through a series of data entry panel and enter configuration data on those panels. Panel entry is especially convenient if you want to make a small number of changes to your configuration file. The following describes each of the Advanced facilities panels that are specific to 3215 support.

Set card mode

The Set card mode panel is used to set the speed and mode of the OSA-ICC.

Note: This panel does NOT show the way the card is currently set. It is NOT a display card mode panel. This panel shows options to set the card. See @server *zSeries z890 and z990 Open Systems Adapter-Express Integrated Console Controller User's Guide* to see HOW the card is set.

HMCT61: OSA Advanced Facilities 📃 🔤 🔀
Set Card Mode or Speed - P0057426
Channel ID: 0300
Lan port type: OSC-ICC 3215 for TPF
Port identifier: * 0
ModelSpeed
Auto Negotiate
C 10 Mb, Half Duplex
C 10 Mb, <u>F</u> ull Duplex
C 100 Mb, Half Duplex
C 100 Mb, Full Duplex
C 1000 Mb, Full Duplex
OK Cancel Help

Figure 7. Set card mode panel

Port identifier: Since there is only one port in OSA-ICC, the entry field default is 0. This field is not used.

Mode: The default is half duplex. The mode can be changed dynamically, but it is recommended that you do not make this change while sessions are active and connected.

Display client connections

The **Display client connections** panel allows you to view currently connected clients. This information is queried at the time you open this panel. To refresh the information, exit the panel and reopen it.

Dis	splay Clier	nt Connections -	P0057426			1
Channel	ID:	0300	16 States of the	1. Here	a harden in si	
Lan port	type:	OSC-	ICC 3215 f	or TP	F	
Session Index	Status	MAC	Clients IP	Port	Socket Number	Connect Rule
1	Connected	00:12:F2:95:B9:00	9.57.9.14	4765	2	Session Name Only
2	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
3	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
4	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
5	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
6	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
7	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
8	Connected	00:12:F2:95:B9:00	9.57.9.14	4771	3	Session Name Only
9	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
10	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
11	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
12	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
13	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
14	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown
15	Available	00:00:00:00:00:00	0.0.0.0	0	0	Unknown

Figure 8. Display client connections panel

Session Index specifies the session number. The valid range is 1-32.

Status specifies whether the session is not configured, available, connected, active, or has a definition error:

- Not configured: the session has not yet been configured.
- Available: the session has been configured and the client can connect to it.
- Connected: the session has been configured and the client is connected to it.
- Active: the session has been configured, the client is connected to it, and the client is connected to the host.
- Definition error: the session is not a valid session and the client cannot connect. The session CSS, MIFID, or Device Number does not exist or was dynamically deleted during dynamic I/O.

MAC specifies the address of the client that is being connected if the client is on the local end. Otherwise, the MAC address of the router is displayed.

Client's IP specifies the IP address of the attached client.

Port specifies the port number of the attached client.

Socket Number specifies the Local TCP socket number that uniquely defines the connection. This parameter is only useful to the OSA-ICC PE.

Connect rule can be session name only, or session name and IP. For more information on connection rules, see @server *zSeries z890 and z990 Open Systems Adapter-Express Integrated Console Controller User's Guide*.

Display active session configuration

The **Display active session configuration** panel is used to display the active session configuration for a given OSC. This includes a list of the sessions that are

	Sessions	Conf	iguratio	on - P005	7426		<u>i</u>
Chanr	nel ID:	1.1.1	- 0.840	0300		1. Standard	
Lan p	ort type:			OSC-IC	CC 3215 fo	or TPF	
Index	State	CSS	MIFID	Device Number	Session Name	Client's IP	Attention Delay Timer
1	Available	0	02	5400	sessB0	0.0.0.0	15
2	Available	0	02	5401	SESSB1	0.0.0.0	15
3	Available	0	02	5402	sessB2	0.0.0.0	3
4	Available	0	02	5403	sessB3	0.0.0.0	60
5	Available	0	02	5404	sessB4	0.0.0.0	60
6	Available	0	02	5405	sessB5	0.0.0.0	60
7	Available	0	02	5406	sessB6	0.0.0.0	60
8	Available	0	02	5407	sessB7	0.0.0.0	15
9	Available	2	03	5407	sessB8	0.0.0.0	3
10	Available	0	02	5408	sessB9	0.0.0.0	3
11	Available	0	02	5409	sessBA	0.0.0.0	3
12	Available	0	02	540A	sessBB	0.0.0.0	3
13	Available	0	02	540B	sessBC	0.0.0.0	3
14	Available	0	02	540C	sessBD	0.0.0.0	3
15	Available	0	02	540D	sessBE	0.0.0.0	3

configured for the OSC and configuration information about each session.

Figure 9. Display active session configuration panel

Index specifies the session number.

State specifies whether the session is not configured, available, or has a definition error:

- Not configured: the session has not yet been configured.
- · Available: the session has been configured and the client can connect to it.
- Definition error: the session is not a valid session and the client cannot connect. The session CSS, MIFID, or Device Number does not exist or was dynamically deleted during dynamic I/O.

CSS specifies the logical channel subsystem ID. The valid range for CSS is 0–3.

MIFID is the logical partition MIF image ID. A valid range for the image ID is 1–F.

Device Number is a hexadecimal number assigned for each device that was defined in the IOCDS. The valid range is 1-FFFF.

Session Name identifies the session you are going to connect to. This has to be unique per session.

Client's IP (optional) specifies the IP address that a client will use to connect to the session. The client's IP address can remain 0.0.0.0 or empty in order to allow any client to connect to a specific session. If a non-zero IP is specified, any client with a non-matching IP will be rejected.

Attention Delay Timer started by OSA-ICC when a command is received from the client, and attention is issued to the operating system. The timer is stopped after the read is received, data is sent to the host, and channel end/device end is received from the host OS. The default is 3 seconds; the maximum is 60 seconds.

Display active server configuration

The *Display active server configuration* panel is used to display the active TCP/IP connection configuration information about the OSC channel.

HMCT61: OSA Advance	ed Facilities
Server Configuration - P0	057426
Channel ID: Lan port type:	0300 OSC-ICC 3215 for TPF
Server name	OSA-ICCIMK
Host IP address	* 9.56.196.113
TCP port	2300
Default Gateway	* 9.56.196.2
Subnet Mask	* 255.255.255.0
Session reconnect time	*0
Telnet non-operational time interv	al*
Frame type	· · · · · · · · · · · · · · · · · · ·
© <u>D</u> IX ○ <u>S</u> NAP	
MTU Size(B)	1492
OK Help	

Figure 10. Display active server configuration panel

Server Name specifies the name of the server that a client is connected to. This field is not used except for display.

Host IP Address specifies your IP address.

TCP Port Port that server will use to connect with the client. A valid range is 1–65535.

Default Gateway specifies IP address gateway to any machines out of network.

Subnet Mask A mask used to determine what subnet an IP address belongs to.

Session reconnect time indicates the amount of time to wait (in seconds) until the OSA-ICC tells the host operating system that the 3215 console session has disconnected.

Telnet non-operational time interval the interval (in seconds) in which OSA-ICC sends the Telnet NOP command to the client. The default is 180 seconds. Setting the value to 0 is equivalent to disabling it.

Frame type specifies the Ethernet standards that you want the network to follow. Every host in a network must have the same frame type. It is **strongly recommended** that you use DIX as your frame type. SNAP refers to IEEE 802.3 framing, but most traffic on Ethernet is usually carried on DIX frames. Please contact your network administrator to see what you are using.

MTU Size(B) specifies the maximum size to be transferred in one frame. A valid range is 256-1492. The default is 576. Speak to your network administrator to see if you need the MTU size to be different from the default.

Panel configuration options

The *Panel configuration options* panel is the high level selection panel for the configuration options that are used for editing a session or server configuration, validating panel values, and/or viewing validate panel values errors. To choose a panel configuration option, select a utility option and click OK.

	HMCT61: OSA Advanced Facilities	
Par	nel Configuration Options - P0057426	I
Lan port I	ID: 0300 type: OSC-ICC 3215 for TPF ation file options	
C Edit s C Valida	essions configuration server configuration ate panel values ay validate panel <u>e</u> rrors	
Note:	After the panel values have been validated, use the Activate Configuration function on th Advanced Facilities panel to make them activ your present changes will be lost. ancel Help	ie

Figure 11. Panel configuration options panel

The *Edit sessions configuration* and *Edit server configuration* panels have been changed for the 3215 support.

Edit sessions configuration

The *Edit sessions configuration* panel is used to edit the session configuration for a given OSC. This includes a list of the sessions that are configured for the OSC and configuration information about each session. The display is the same as the *Display active session configuration* panel except the fields may be edited.

Configuration

E	dit Se	ssions C	onfigu	ration	- P00574	26		
Chann	el ID:	1 Carlos	Site S	0	300		The state	
Lan po	· · · · ·			the state of the state of the		3215 for T		
	~	ession data			e and clid	< "Change	".	
To sav	e sess	ion data, c	lick "S	save".		1		
Select	Index	State	CSS	MIFID	Device Number	Session	Client's	Attention Delay Timer
•	1	Available	0	02	5400	sessB0	0.0.0.0	15
C	2	Available	0	02	5401	SESSB1	0.0.0.0	15
C	3	Available	0	02	5402	sessB2	0.0.0.0	3
C	4	Available	0	02	5403	sessB3	0.0.0.0	60
C	5	Available	0	02	5404	sessB4	0.0.0.0	60
C	6	Available	0	02	5405	sessB5	0.0.0.0	60
C	7	Available	0	02	5406	sessB6	0.0.0.0	60
C	8	Available	0	02	5407	sessB7	0.0.0.0	15
C	9	Available	2	03	5407	sessB8	0.0.0.0	3
C	10	Available	0	02	5408	sessB9	0.0.0.0	3
C	11	Available	0	02	5409	sessBA	0.0.0.0	3
C	12	Available	0	02	540A	sessBB	0.0.0.0	3
C	13	Available	0	02	540B	sessBC	0.0.0.0	3
C	14	Available	0	02	540C	sessBD	0.0.0.0	3
C	15	Available	0	02	540D	sessBE	0.0.0.0	3

Figure 12. Edit session configuration panel

Index specifies the session number.

State specifies whether the session is not configured, available, or has a definition error:

- Not configured: the session has not yet been configured.
- · Available: the session has been configured and the client can connect to it.
- Definition error: the session is not a valid session and the client cannot connect. The session CSS, MIFID, or Device Number does not exist or was dynamically deleted during dynamic I/O.

CSS specifies the logical channel subsystem ID. The valid range for CSS is 0–3.

MIFID is the logical partition MIF image ID. A valid range for the image ID is 1-F.

Device Number is a hexadecimal number assigned for each device that was defined in the IOCDS. The valid range is 1-FFFF.

Session Name identifies the session you are going to connect to. This has to be unique per session.

Client's IP (optional) specifies the IP address that a client will use to connect to the session. The client's IP address can remain 0.0.0.0 or empty in order to allow any client to connect to a specific session. If a non-zero IP is specified, any client with a non-matching IP will be rejected.

Attention Delay Timer started by OSA-ICC when a command is received from the client, and attention is issued to the operating system. The timer is stopped after the read is received, data is sent to the host, and channel end/device end is received from the host OS. The default is 3 seconds; the maximum is 60 seconds.

To edit a field:

- 1. Highlight the entry you want to edit.
- 2. Double click the change button at the buttom of the screen.

	HMCT61: OSA Advanced F	icilities	
Edit Session Co	onfiguration - P0057426		
Channel ID:	0300	a stand a stand	
Lan port type:	OSC-ICC 3215 for TPF		
Session Index	1		
Session state	Available		
CSS Value	0	-	
MIFID	2	•	
Device number	5400	-	
Session Name:	sessB0		
Client's IP address	* 0.0.0.0		
Attention delay timer	15		(3 - 60)
If this session is active OK Delete Session	, then changing configuration Cancel Help	s can cause (client connection to drop.

Figure 13. Edit session configuration panel

- 3. Make any desired changes. Be sure to scroll down to view all the fields that you can edit. For a description of the fields, see the field descriptions above.
- 4. Click OK to save the updated session information or the information will be lost.
- 5. Validate and activate your changes. For more information on validating and activating see, @server zSeries z890 and z990 Open Systems Adapter-Express Integrated Console Controller User's Guide.

Edit server configuration

The *Edit server configuration* panel is used to edit the server configuration for a given OSC.

Configuration

HMCT	61: OSA Advanced Facilities		
Edit Server Configurat	tion - P0057426	8	
Channel ID:	0300		
Lan port type:	OSC-ICC 3215 for TPF		
Server name	OSA-ICCIMK		
Host IP address	* 9.56.196.113		
TCP port	2300	(0-65535)	
Default Gateway	[*] 9.56.196.2		
Subnet Mask	* 255.255.255.0		
Session reconnect time	* 0	(0 - 86400)	
Telnet non-operational time in	terval* 0	(0 - 180)	
Frame type			
Note:	The recommended frame type for OSA-ICC is DIX. Changing the frame type to another mode without checking with your Network Administrator could cause a loss of connectivity to your sessions.		
MTU Size(B)	1492	(256-1492)	
Changing host IP address or p OK Cancel Help	port will cause dropping of any curre	ntly connected clients.	

Figure 14. Edit server configuration panel

The *Edit server configuration* panel requires the following input:

Server name Used for display only.

Host IP Address specifies your IP address.

TCP Port Port that server will use to connect with the client. A valid range is 1–65535.

Default Gateway specifies IP address gateway to any machines out of network.

Subnet Mask A mask used to determine what subnet an IP address belongs to.

Session reconnect time indicates the amount of time to wait (in seconds) until the OSA-ICC tells the host operating system that the 3215 console session has disconnected.

Telnet non-operational time interval the interval (in seconds) in which OSA-ICC sends the Telnet NOP command to the client. The default is 180 seconds. Setting the value to 0 is equivalent to disabling it.

Frame type specifies the Ethernet standards that you want the network to follow. Every host in a network must have the same frame type. It is **strongly recommended** that you use DIX as your frame type. SNAP refers to IEEE 802.3 framing, but most traffic on Ethernet is usually carried on DIX frames. Please contact your network administrator to see what you are using. **MTU Size(B)** specifies the maximum size to be transferred in one frame. A valid range is 256-1492. The default is 576. Speak to your network administrator to see if you need the MTU size to be different from the default.

Configuring with manual editing

Configuring your OSA-ICC results in the creation of a session configuration file. You can create this file by entering data through panel entry or by manually editing the file. Manual editing is much faster for multiple data entries because of the powerful editing capabilities of most workstation editors. You can edit the configuration file on your Hardware Management Console or SE console, or you can export the configuration file to a storage device, edit it on the workstation of your choice, and import back to the SE. You can also edit the configuration file directly on the SE console by selecting the Edit source file panel under the Manual configuration options panel (as shown in Figure 15).

	HMCT61: OSA Advanced Facilities	
Man	ual Configuration Options - P0057426	i
	D: 0300 ype: OSC-ICC 3215 for TPF <i>tion file options</i>	
Expor	t source file t source file t source file by FTP t source file by FTP ource file tte source file	
Note: OK Ca	After source file has been validated, you must the Activate Configuration function on the Act Facilities panel to make it active, or your pres changes will be lost.	lvanced

Figure 15. Selecting an Edit source file from the Manual configuration options panel

Selecting an Edit source file from the Manual configuration options panel generates the editor shown in Figure 16 on page 19. It includes a sample manual configuration of the data defined in the Panel configuration process described in "Panel configuration options" on page 14.

```
r 🗗 🖂
Edit Configuration
File Edit Style
                                                                               ۰
 // This file has been generated from the binary file 0300.hut
<OSC_SERVER>
  HOST_IP= 9.56.196.113
   DEFAULT_GATEWAY= 9.56.196.2
   SUBNET MASK= 255.255.255.0
   PORT= 2300
   ETHERNET FRAME = DIX
   MTU= 1492
   NAME= OSA-ICCIMK
   SESSION_RECONNECTION_TIMEOUT= 0
   TELNET NOOP TIME INTERVAL= 0
 </OSC_SERVER>
 <CONFIG_SESSION>
 <SESSION1>
  CSS= 00 IID= 02 DEVICE= 00B0
   SESSION NAME = sessB0
  ATTN DELAY= 15
 </SESSION1>
 <SESSION2>
  CSS= 00 IID= 02 DEVICE= 00B1
  SESSION NAME= sessBl
  ATTN DELAY= 15
 </SESSION2>
 <SESSION3>
  CSS= 00 IID= 02 DEVICE= 00B2
   SESSION NAME= sessB2
  ATTN DELAY= 3
</SESSION3>
 </CONFIG_SESSION>
Insert Mode
                                                                Char 2 Ln 2 Col 1
```

Figure 16. Manual configuration editor

Configuration file sections

As shown in Figure 16, there are two sections to the session configuration file:

- Parameters about the OSC.
 - These are referred to as card parameters because they relate to the OSA-Express card. In the file, the first line of the card parameters is the <OSC_SERVER> tag and the last line of the card parameters is the </OSC_SERVER> tag.
- Parameters about the 3215 sessions you want to configure for your OSA-ICC.

You can configure up to 32 sessions on an OSA-ICC 3215. In the file, the first line of the session parameters is the <CONFIG_SESSION> tag and the last line of the card parameters is the </CONFIG_SESSION> tag. Within the <CONFIG_SESSION> section of the file are the individual session configuration parameters. Each set session parameters begins with the <SESSIONx> tag and ends with the </SESSIONx> tag, where x is the index number of the 3215 session within the configuration.

Configuration file syntax

The following tags can be included in the manual configuration file.

Server tag identifiers

Table 1. Server tag identifiers

//

<OSC_SERVER> Server definition start delimiter
</OSC_SERVER> Server definition end delimiter
HOST_IP=
PORT=
DEFAULT_GATEWAY=
SUBNET_MASK=
ETHERNET_FRAME=
NAME=
MTU=
SESSION_RECONNECTION_TIMEOUT =
TELNET_NOOP_TIME_INTERVAL =

· Client tag identifiers

Table 2. Client tag identifiers

<config_session></config_session>	Session definition start delimiter
	Session definition end delimiter
<session#></session#>	Inner session definition start delimiter
	Inner session definition end delimiter
CSS=	
MIFID= or IID=	
DEVICE=	
CLIENT_IP=	
SESSION_NAME=	
ATTN_DELAY=	

The following rules apply to tag placement:

- 1. Tags that are immediately followed by '=' need associated values.
- 2. Non delimiter tags may be abbreviated to a minimum of 4 characters.
- 3. Tags can be placed in any order as long as they are within the bounds of their delimiters.
- 4. Server tags must be within the server delimiters.

5. Session tags must be within the inner session delimiter and these inner delimiters must be within the session definition delimiters.

Server tag identifiers

II Indicates that any text at the end of the line is treated as a comment.

Note: Any user-entered comment is erased during activation.

<OSC_SERVER>

The beginning of the server configuration data. There can be only one such tag in the configuration file. It must be followed by the </OSC_SERVER> tag, or a syntax error is produced.

</OSC_SERVER>

The deliminator for the server configuration section. There can be only one such tag in the configuration file. It must be preceded by the </OSC_SERVER> tag, or a syntax error is produced.

HOST_IP=

Used to label the Host's IP address; a value that follows it should be an IP address in dotted format (for example, 10.10.12.43). This address is assigned to the OSA-ICC 3215 server, and this is the address to which TOS connects. The following is an example of using this tag: HOST IP= 10.10.121.44

HUSI_IP= 10.10.121.44

There is no default.

PORT=

The port number on which the OSA-ICC 3215 server is listening to (accepting) clients. For example, PORT= 23. Since there are no other network services provided by OSA-ICC, it is acceptable to use any valid port number in the port number range 1 to 65535; however it is not recommended to use well known ports due to the risk of the DoS attacks. In addition, where firewalls are used, setup should allow for TCP traffic using this port number.

DEFAULT_GATEWAY=

The IP address in dotted decimal format for the default gateway. For example, DEFAULT_GATEWAY= 10.10.121.48. There is no default.

SUBNET_MASK=

The IP address in dotted decimal format for subnet mask. For example, SUBNET_MASK= 225.225.225.0. There is no default.

ETHERNET_FRAME=

The Ethernet standards that you want the network to follow. Every host in a network must have the same frame type. The value can be DIX or SNAP. It is strongly recommended that you use DIX as your frame type. SNAP refers to IEEE 802.3 framing, but most traffic on Ethernet is usually carried on DIX frames. Contact your network administrator to see what you are using. Here are two examples of specifying a frame type:

ETHERNET_FRAME= DIX ETHERNET_FRAME= SNAP

Default value: ETHERNET_FRAME= DIX.

NAME=

The name, which can be up to 15 characters and is not case sensitive. This is an ASCII string that is 15 characters long. Non-blank alphanumeric characters are allowed as well as special printable characters. More

Configuration

specifically, the ASCII hex values 0x21 through 0x7E are valid constructs for a session name. Any character outside of this range produces a syntax error.

MTU= The maximum size to be transferred in one frame. A valid range is 256–1492. Use an MTU size of less than 1492 when the routing equipment does not support anything above 576. The default MTU size is 576.

SESSION_RECONNECTION_TIMEOUT=

The amount of time to wait (in seconds) until the OSA-ICC tells the host operating system that the 3215 console session has been disconnected. The default is 180 seconds. Setting this parameter to 0 is equivalent to disabling it. The maximum value for this parameter is 86400 seconds) which is equivalent to 24 hours.

TELNET_NOOP_TIME_INTERVAL= OSA-ICC 3215

Sends Telnet NOP commands to the client based on the interval (time in seconds) specified in this parameter. Once the client's disconnection is detected, if SESSION_RECONNECTION_TIMEOUT is set, OSA-ICC waits for this timeout before notifying the host operating system. This parameter by default is set to 180 seconds. Setting this parameter to 0 is equivalent of disabling it.

Client tag identifiers

<CONFIG_SESSION>

Marks the beginning of the session configuration.

</CONFIG_SESSION>

Marks the end of the session configuration.

<SESSION#>

Marks the beginning of the individual session configuration. It must be followed by the </SESSION#> tag. Everything between the <SESSION#> and </SESSION#> tags is treated as configuration data for one session. # is replaced by the corresponding index of the session. This number is in the range 1 to 32. Each number can be used only once, since a session can be configured only once.

</SESSION#>

Marks the ending of the individual session configuration. It must be preceded by the <SESSION#> tag. Client tags (tags following this definition) within this boundary beginning with <SESSION#> and ending with </SESSION#> can be defined in any order. Each tag can appear only once for a particular session. They are followed by a number or string, which is assigned to a particular session's parameter.

CSS= The channel subsystem number. The valid range is 0 to 3. This number is compared with IOCDS to make sure that it is defined.

MIFID= or IID=

The image ID for the session. The valid range is 1to F. This number is compared with IOCDS to make sure that it is defined.

DEVICE=

The device number associated to the session. This hexadecimal number is compared with IOCDS to make sure that it is defined. The valid range is 1 to FFFF.

CLIENT_IP=

The IP address that the client will use to connect to this session. IP address

should be in dotted decimal format; for example, 10.10.23.23. Specifying a client's IP is optional. Omitting this tag will allow any client to connect to a specific session.

SESSION_NAME=

A unique name defined to each session; it is equivalent to the user name in a Telnet session. This has to be defined as an ASCII string with a length no greater than 25 characters long. Non blank alphanumeric characters are allowed as well as special printable characters. More specifically, the ASCII hex values 0x21 through 0x7E are valid constructs for a session name. This parameter is not case sensitive.

ATTN_DELAY=

An attention delay timer (for each session) in micro seconds. OSA-ICC starts this timer when it receives a command from the client. The timer is stopped when a response is received from the host OS. The default is 3 seconds (3000 ms). Maximum value is 60 seconds (60000 ms).

Configuration

Chapter 4. Error and warning messages

This section lists OSA error messages and provides explanations and corrective actions. This chapter also includes the following information:

• ...

Messages

The messages for the 3215 support have the following format:

Example: **OSAC**nnnns message text +

OSAC The product identifier.

- *nnnn* Four-digit message sequence number. The messages in this book are listed numerically according to these four digits.
- *s* The message severity, denoted by one of the following characters:
 - I Informational, no action required. Message numbers 1000-1999 are informational.
 - E Errors that requires action eventually. Message numbers 2000-2999 are error.
 - W Warning, action is not required, but an error can occur later,

message text

An ASCII string.

+ Character following the message text, used to distinguish OSA-generated messages from messages sent by operating system.

How to Find a Message

Messages are listed numerically according to the last four characters.

Use LookAt, the online message facility, to look up messages and explanations that appear in this topic. You can access LookAt from the internet at:

http://www.ibm.com/eserver/zseries/zos/bkserv/lookat/

OSA/SF Reason Codes:

Reason codes that are issued as part of OSA/SF messages are for IBM use only. It is for this reason that explanations of reason codes are not documented. Reason codes may be encountered in messages found in the OSA/SF message log.

Table 3. OSA/SF reason codes

Message code	Message text and description
10011	connected to OSA-ICC name via IP address session name session name name session index number 1-32 +
	Description : This configuration information is sent to the client after the session connection is fully established.

Message code	Message text and description
10021	Send Session Name +
	Description : OSA-ICC sends this message to the client to request session name.
2001E	Bad syntax for session name
	Description : The session name is too long or unsupported characters are used. This is sent just before disconnecting the client.
2002E	IP not matching
	Description : The password is too long or unsupported characters are used. This is sent just before disconnecting the client.
2003	Session name not defined
	Description : Session name sent to OSA-ICC is not defined in the session table. This is sent just before disconnecting the client.
2004	Timeout waiting for session info
	Description : Timeout waiting for session name. This is sent just before disconnecting the client.
2005	Session name already in use
	Description : The session is already assigned to another client. This is sent just before disconnecting the client.
2010	Disconnecting because of the configuration mismatch
	Description : Disconnecting because of the configuration mismatch that occurs when the dynamic I/O delete causes the session to enter a definition error state. This is sent just before disconnecting the client.
2011	Disconnecting because OSA-ICC reset
	Description: Disconnecting because the CHPID is off (or POR).

Table 3. OSA/SF reason codes (continued)

Errors for validate source file:

Table 4. Errors for validate source file

Message code	Message text
1010	// @@@ error: Sessions X and Y are defining same device; i.e. same css/mifid/device
1020	// @@@ error: Can't have multiple <osc_server> tags</osc_server>
1021	// @@@ error: Can't have <osc_server> tag within session configuration</osc_server>
1022	// @@@ error: Card configuration already done
1030	// @@@ error: Illegal <osc_server> position</osc_server>
1031	// @@@ error: Server configuration section has to be closed by <osc_server></osc_server>
1032	// @@@ error: Missing HOST_IP tag
1033	// @@@ error: Missing PORT tag
1034	// @@@ error: Missing DEFAULT_GATEWAY tag
1035	// @@@ error: Missing SUBNET_MASK tag

Table 4. Errors for validate source file ((continued)
--	-------------

Message code Message text		
1036	// @@@ error: Missing ETHERNET tag	
1037	// @@@ error: Missing NAME tag	
1038	// @@@ error: Missing MTU tag	
1040	// @@@ error: No host IP value	
1040	// @@@ error: Can't have host IP outside of card configuration area	
1041	// @ @ @ error: Host IP value is in bad format	
1042	// @@@ error: Host name value is too long - 15 chars is the Max	
1045	// @@@ error: No host name value	
1046	// @@@ error: Unsupported name format	
1047	// @@@ error: Can't have name outside of card configuration area	
1050	// @@@ error: No host port value	
1051	// @@@ error: Can't have host port outside of card configuration area	
1052	// @@@ error: Out of range port value	
1060	// @@@ error: No gateway router value	
1061	// @@@ error: Can't define gateway outside of the card configuration	
	area	
1062	// @@@ error: Invalid gateway address value or format	
1070	// @@@ error: No subnet mask value	
1071	// @@@ error: Can't define subnet mask outside of the card	
	configuration area	
1072	// @ @ @ error: Invalid subnet address value or format	
1080	// @ @ @ error: No value for Ethernet standard	
1081	// @ @ @ error: Can't define Ethernet standard outside of card configuration	
1082	// @@@ error: Unknown Ethernet standard value or format	
1090	// @ @ @ error: No value for MTU	
1091	// @ @ @ error: Can't define MTU outside of card configuration	
1092	// @ @ @ error: MTU value outside of 256 - 1492 range	
1093	// @@@ error: MTU value has to be a decimal number	
1100	// @@@ error: Can't have <config_session> tag within card configuration area</config_session>	
1101	// @@@ error: Can't have multiple <config_session> tags</config_session>	
1102	// @ @ @ error: Sessions configuration already done	
1110	// @ @ @ error: Illegal <config_session> position</config_session>	
1120	// @@@ error: <session# end="" needs="" to="" with="">, i.e. <session#></session#></session#>	
1121	// @@@ error: Trying to configure session outside of session configuration area	
1122	// @ @ @ error: Session # is not between [1 and 32]	
1123	// @ @ @ arrar: Ovarlanning configuration for different appoint	
1120	// @ @ @ error: Overlapping configuration for different session	
1123	// @@@ error: , i.e.	

Message code	Message text
1126	// @@@ error: This Session # has already been configured
1127	// @@@ error: Session # has to be a decimal number
1128	// @ @ @ error: This session is missing one of the mandatory tags: css, iid, device or attn_delay
1130	// @ @ @ error: Can't define CSS outside of session configuration area
1131	// @ @ @ error: Have to define CSS between <session#> and </session#> tags
1132	// @@@ error: Unsupported CSS value
1133	// @ @ @ error: CSS value is not present
1140	// @@@ error: Can't define MIFID (IID) outside of session configuration area
1141	// @ @ @ error: Have to define MIFID (IID) between <session#> and </session#> tags
1142	// @ @ @ error: Unsupported MIFID (IID) value. Range is [01-0F]
1143	// @@@ error: MIFID (IID) value not present
1150	// @@@ error: Can't define device outside of session configuration area
1151	// @@@ error: Have to define device between <session#> and </session#> tags
1152	// @ @ @ error: Unsupported device value
1153	// @@@ error: Device value not present
1170	// @ @ @ error: Can't define client's IP outside of session configuration area
1171	// @@@ error: Have to define client IP between <session#> and </session#> tags
1172	// @@@ error: Client IP value is in bad format
1173	// @@@ error: Client IP value not present
1240	// @@@ error: No Session Reconnect Timeout value
1241	// @ @ @ error: Can't define Session Reconnect Timeout outside of card configuration
1242	// @@@ error: Session Reconnect value is outside of 0-86400 range
1243	// @ @ @ error: Session Reconnect value has to be a decimal number in seconds (s)
1250	// @@@ error: No Telnet Noop Time Interval value
1251	// @ @ @ error: Can't define Telnet Noop Time Interval outside of card configuration
1252	// @ @ @ error: Telnet Noop Time Interval outside of range 0 - 180 range
1253	// @ @ @ error: Telnet Noop Time Interval has to be a decimal number in seconds (s)
1260	// @ @ @ error: Can't define session name outside of session configuration area
1261	// @@@ error: Have to define session name between <session#> and </session#> tags

Table 4. Errors for validate source file (continued)

Table 4. Errors for validate source file (continued)

Message code	Message text
1262	// @@@ error: Unsupported session name length
1263	// @@@ error: Session name value not present
1270	// @ @ @ error: Can't define attention delay outside of session configuration area
1271	// @ @ @ error: Have to define attention delay between <session#> and </session#> tags
1272	// @@@ error: Attention delay value is outside 3-60 range
1273	// @@@ error: Attention delay value not present
1280	// @ @ @ error: 1280: Session name must be unique per session. Sessions X and Y are in conflict.
1281	// @ @ @ error: 1281: Session name is not specified for session X

Warnings from validate source file:

Table 5. Warnings from validate source file

Message code	Message text
506	// @@@ warning: 505 The session is in Definition Error state because CSS is not defined in IOCDS
507	// @@@ warning: 507 This session is in Definition Error state because IID is not defined for CSS in IOCDS
508	// @@@ warning: 508 This session is in Definition Error state because Device is not defined for IID in IOCDS
509	// @@@ warning: 509 This session is in Definition Error state because device is not defined for IOCDS

Errors from validate panels:

Table 6. Errors from validate panels

Message code	Message text
1010	// @ @ @ Error 1010: Session #X and session #Y are defining same device; i.e. same css/mifid/device
1042	// @@@ Error 1042: Invalid server IP value: XXXXX
1046	// @@@ Error 1046: Unsupported name format
1052	// @@@ Error 1052: Invalid server port value: XXXXX
1082	// @@@ Error 1082: Invalid server LAN PARM value
1092	// @@@ Error 1092: Invalid server MTU value: XXXXX
1132	// @@@ Error 1132: Session #X has out of range CSS value
1142	// @@@ Error 1142: Session #X has out of range IID value.
1152	// @@@ Error 1152: Session #X has out of range device number value
1242	// @@@ Error 1242: Invalid session reconnection value: XXXXX
1252	// @ @ @ Error 1252: Invalid Telnet Noop Time Interval value: XXXXX
1262	// @@@ Error 1262: Session #X has an invalid session name

 Message code
 Message text

 1272
 // @ @ @ Error 1272: Session #X has out of range attention delay value

 1280
 // @ @ @ Error: 1280: Session name has to be unique per session. Sessions #X and #Y are in conflict.

 1281
 // @ @ @ Error: 1281: Session name is not specified for session #X

Table 6. Errors from validate panels (continued)

Warnings from validate panels:

Table 7. Warnings from validate panels

Message code	Message text
62	// @@@ Warning 62: Invalid server gateway value: XXXXX
72	// @@@ Warning 72: Invalid server subnet mask value: XXXXX
506	// @@@ warning: Session X is in Definition Error state because CSS is not defined in IOCDS
507	// @@@ warning: Session X is in Definition Error state because IID is not defined in IOCDS
508	// @@@ warning: Session X is in Definition Error state because device is not defined for IID in IOCDS
509	// @@@ warning: Session X is in Definition Error state because device is not defined in IOCDS

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