

# Bidders' Online Training

## Auction Software Demonstration



Industry  
Canada

Industrie  
Canada

# Legal Disclaimer



**This presentation is for information only. The policies and rules associated with the spectrum auction are set out in their entirety in the official Policy document and in any written amendments or supplements that may be issued by the Department.**

# Outline of Presentation



- Introduction to the Auction Management System (AMS)
- Bidder System Requirements
- Step by Step Instructions to Using AMS

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# ***Introduction to the Auction Management System (AMS)***

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- Auction Management System
- Runs electronically over the Internet
- User-friendly Web browser interface
- Entrust PKI encryption and digital signature
- Bid tracking system
- Posting end-of-round results

This presentation is for information only.

# Secure Bidding



- **Public Key Infrastructure (PKI)**
  - Employs the latest Entrust PKI digital signature technology to ensure confidentiality and authenticity of electronic transactions
  - This technology was used to secure the previous spectrum auctions in Canada

# PKI Certification



- All bids will be encrypted and digitally signed
- Qualified bidders will receive instructions on how to configure their Entrust Security Profiles
- If the safekeeping of the password is compromised, bidders can change it online
  - Inform Industry Canada as soon as possible
- Entrust Security Profiles are valid only for the duration of the auction and are to be used only for auction and mock auction purposes

# Simultaneous Multiple Round Auction – How does it Work?



- A related set of spectrum licences is offered at the same time
- Bidding is organized into a series of rounds
- Bidding is non-discretionary
- Results are posted after each round
- In each round, bidders will be allowed to withdraw bids made in previous rounds subject to a penalty

This presentation is for information only.



# Simultaneous Multiple Round Auction – How does it Work? – cont'd



- Pace of the auction is established by activity rules
- The rounds continue until there is a round when no new bids/no withdrawals/no waivers are submitted during the last stage of the auction
- Provisional winners hold standing high bids at the auction's close

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# Tips for Auction Bidders



- Learn the auction rules
- Determine in advance your firm's objectives and values for the licences
- Perform your firm's due diligence on the spectrum being auctioned
- Obtain the financing
- Organize the bidding team
- Make use of the information available
- Run practice sessions and participate in the official mock auction
- Develop contingency plans

# Round Results from Auction Web Site

<http://strategis.gc.ca/spectrumauctions>



Spectrum Auctions - Microsoft Internet Explorer

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Canada

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strategis.gc.ca

- ▶ Amateur Radio Service
- ▶ Antenna Structures
- ▶ Broadband Wireless Access
- ▶ Cell Phone Silencers
- ▶ Emergency Telecom
- ▶ Family Radio Devices
- ▶ Local Multipoint Communications Systems
- ▶ Multipoint Communications Systems
- ▶ New Party Cellular Services
- ▶ Personal Communications Services
- ▶ Satellite Services
- ▶ Spectrum

▶ Spectrum Management and Telecommunications

▶ Radiocom ▶ Spectrum Auctions

Spectrum Management and Telecommunications

## Spectrum Auctions

### Specific Auctions

**Proposed:**

For an indication of the Department's intentions on the release of spectrum via a competitive licensing process (comparative review process or spectrum auction process) please refer to the [Guidelines on the Licensing Process and Spectrum Release Plan](#)

**Current:**

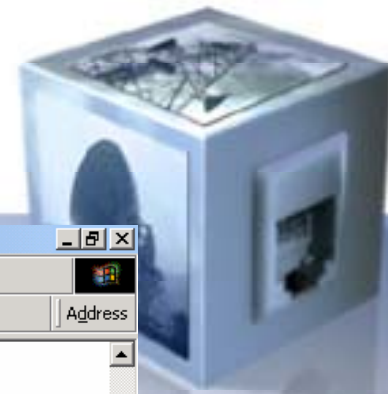
(03) [Auction of the 2300 and 3500 MHz Frequency Bands](#)

**Completed:**

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# Round Results from Auction Web Site - cont 'd



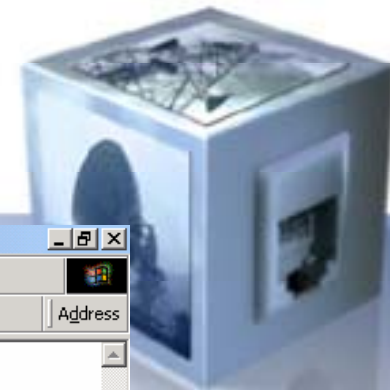
A screenshot of a Microsoft Internet Explorer browser window displaying the website for the "Auction of the 2300 and 3500 MHz Frequency Bands". The browser's address bar shows the URL. The page content is organized into several sections:

- Reference Documents**
- Service Areas for Competitive Licensing**
- Spectrum Auctions in Other Countries**
- Spectrum Licensing**
- Wireless Communication Services (WCS) and Fixed Wireless Access (FWA)**
- Development of Final Policy**
  - [Information Bulletins, Notices and News Releases](#)
  - [Consultation Process](#)
  - [Final Policy and Licensing Procedures](#)
- Pre-Auction Information**
  - [Online Presentations](#)
- Applicants and Qualified Bidders**
  - Applicants
  - Qualified Bidders' Names and Numbers
  - Bidder Information Documents
- Auction Results** (highlighted with a red arrow)
  - Bid Tracking Software
  - Auction Round Results
  - Summary Maps
- Licensee List**
  - Auction Licensees and Licence Conditions
  - Divided and Transferred Licences
  - Licence Registry

At the bottom of the page, there is a footer with the text "Updated: 2003-09-26", a "top of" link, and links for "Important Notices" and "Privacy Statement". The browser's status bar at the bottom right shows "Local intranet".



# Round Results from Auction Web Site – cont'd




Reports Menu - Microsoft Internet Explorer

File Edit View Favorites Tools Help

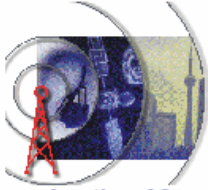
Back Forward Stop Home Search Favorites History Print

Address

 Industry Canada Industrie Canada Canada

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[Bid Tracking System](#) [2300 and 3500 MHz Auction Homepage](#)

  
**Auction 03**

**Round :** 3  
**Stage :** 1

**Reports Menu**

**Round Details**  
[Bidder Summary](#)  
[Service Areas](#)  
[Licence Summary](#)  
[Round Summary](#)  
[Detailed Bidding Results](#)  
[Withdrawal Summary](#)  
[Bidder Data](#)

**Auction Information**  
[Qualified Bidders' Numbers](#)  
[Messages to Bidders](#)

**Schedule**  
[Current Schedule](#)  
[Proposed Schedule for the following week](#)

**Maps and Tables**  
[Service Area Maps](#)  
[Detailed Service Area Maps](#)  
[Download Data Files](#)

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[Last Updated: 2001-06-07, 13:15:00](#) [Important Notices](#)

Internet



# ***Bidder System Requirements***

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The policies and rules associated with the spectrum auction are set out in their entirety in the official Policy document and in any written amendments or supplements that may be issued by the Department.

# Bidder System Requirements



- Pentium III, 450 MHz microprocessor or better
- At least 256 MB of RAM
- CD-ROM drive
- Minimum of 50 MB free disk space
- Supported Operating Systems: Windows 98, Windows 2000 and Windows XP
- Internet Explorer version 5.5
- Internet access with a reliable connection to the Canadian Internet backbone by a 56 Kbps modem (or faster) or a high-speed Internet connection

# Bidder System Requirements – cont'd



- The Department suggests applicants use
  - A freshly installed PC so that the Entrust PKI software does not conflict with other applications or previously installed versions
  - Dial-up or cable ISP rather than LAN access to minimize potential difficulties with network configurations, firewalls, proxies, etc.



# Back-up Procedures



- Bidders are advised to
  - Prepare back-up facilities and locations, and have multiple means of accessing the Internet
  - Have up to three individuals designated to place bids on their behalf
  - Use waivers judiciously in the event of technical difficulties
- The Department will provide a limited back-up service
  - As a last resort, bidders can call the Auction Centre to have Departmental staff submit bids on their behalf
  - Rounds will not be extended to provide extra time for the submission of bids
  - Bidders must call early enough in the round to ensure that their bids are submitted on time

This presentation is for information only.

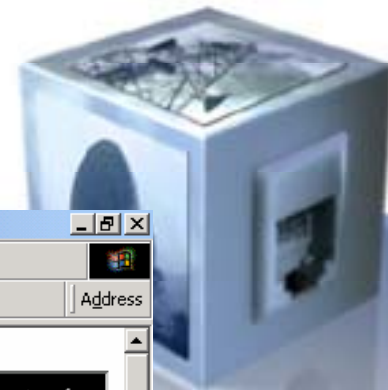


# ***Step by Step Instructions to Using AMS***

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# Spectrum Auction Access Page



Spectrum Auction Management System - Access Page - Microsoft Internet Explorer

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## 2300 MHz and 3500 MHz Spectrum Auction Access Page

*Welcome to Industry Canada's Spectrum Auction Access Page for qualified bidders in the 2300 MHz and 3500 MHz Spectrum Auction. This page must be the starting point per browser session for submitting bids and/or withdrawals to the Spectrum Auction Management System.*

*Any questions or problems with the installation and/or operation of your auction software should be reported to the Spectrum Auctions Call Centre.*

**Qualified Bidders, Enter Here**

 ENGLISH

Members of the public are asked to consult the Spectrum Auctions Public Websites:

[2300 MHz and 3500 MHz Spectrum Auction Homepage](#)


[Spectrum Management and Telecommunications Website](#)

## Page d'accès à l'enchère du spectre pour les bandes 2300 MHz et 3500 MHz

*Bienvenue à la page d'accès à l'enchère du spectre d'Industrie Canada pour les soumissionnaires qualifiés à l'enchère du spectre pour les bandes 2300 MHz et 3500 MHz. Cette page doit être le point de départ par session de navigateur pour soumettre des offres et/ou des retraits au Système de gestion de l'enchère du spectre.*

*Toute question ou problème avec l'installation et/ou l'utilisation de votre logiciel d'enchère devrait être rapporté au Centre d'appels des enchères du spectre.*

**Les soumissionnaires qualifiés, entrez ici**

 FRANÇAIS

Les membres du public sont priés de consulter les sites publics des enchères du spectre:

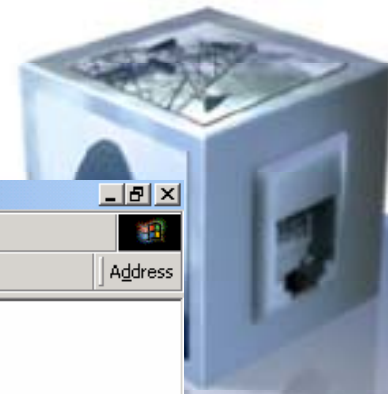
[Page d'accueil pour l'enchère des bandes de fréquences de 2300 MHz et de 3500 MHz](#)

Local intranet

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# User Authentication



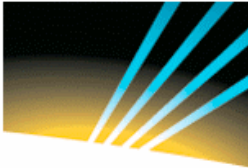
Spectrum Auction Management System - Access Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

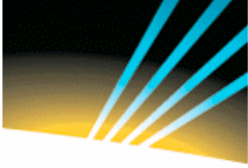
Back Forward Stop Home Search Favorites History Print Mail

Address

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## Spectrum Auction Management System



[ [Home](#) | [Change PKI Password](#) | [Logout](#) ]

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### User Authentication - Roaming Profile User

If you are a registered user, please enter your username and password below.

Username:

Password:

Remember username

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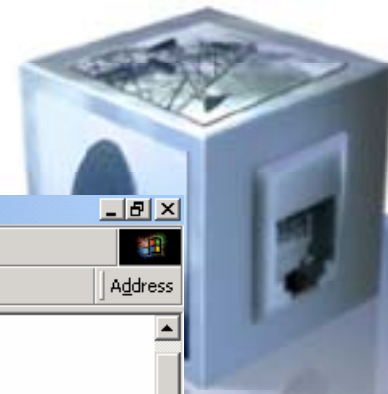
If you are not yet registered for the Spectrum Auction Management System, please contact IC Spectrum Management to get your registration package.

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*Industry Canada - Industrie Canada*

Done Local intranet

# Spectrum Auction Home Page

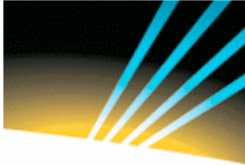


Spectrum Auction Management System - Access Page - Microsoft Internet Explorer

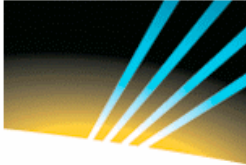
File Edit View Favorites Tools Help

← Back → Search Favorites History

Address



Spectrum Auction Management System



[ [Home](#) | [Change PKI Password](#) | [Logout](#) ]

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## Spectrum Auction Home Page

[[French Version \(Version Française\)](#)]

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**Current Round #1 Current Stage #1**

- [Enter Withdrawals and Bids](#)
- [Enter Withdrawals and Bids on Preferred Properties](#)
- [View Schedule](#)
- [Archived Messages](#)
- [View User's Manual](#)

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### Important Message from Industry Canada

Welcome to the 2.3GHZ & 3.5GHZ auction

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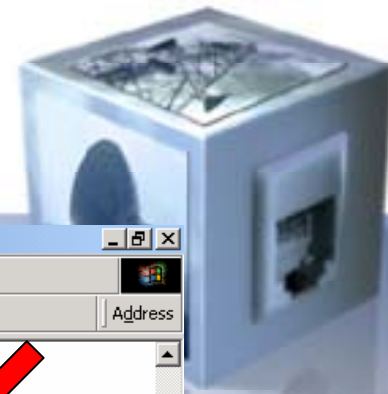
### Previous Round Results

Done Local intranet

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# Easy Steps for Changing your PKI Password



Spectrum Auction Management System - Access Page - Microsoft Internet Explorer

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Address

Spectrum Auction Management System

[ [Home](#) | [Change PKI Password](#) | [Logout](#) ]

### Change PKI Password

Please enter your current password and then choose a new password. The minimum requirements for your password will be checked against your new password as you enter it.

User name: Tester1

Current Password:

New Password:

Confirm Password:

- x must be at least 8 characters long
- x must contain an uppercase character
- x must contain a lowercase character
- x must contain a numeric character
- x must not reuse old password
- x must not contain a portion of profile name longer than half its length
- x must not repeat a character more than half the length of the password

x both passwords must match

**Responsibility: It is the user's responsibility to ensure the safekeeping of their username and password.**

Done Local intranet

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# Enter Withdrawals and Bids – Option 1 – View All Properties

Spectrum Auction Management System

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## Spectrum Auction Home Page

[[French Version \(Version Française\)](#)]

**Current Round #1 Current Stage #1**

[Enter Withdrawals and Bids](#)

[Enter Withdrawals and Bids on Preferred Properties](#)

[View Schedule](#)

[Archived Messages](#)

[View User's Manual](#)

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### Important Message from Industry Canada

Welcome to the 2.3GHZ & 3.5GHZ auction

---

### Previous Round Results

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# Enter Withdrawals and Bids – Option 2 – View Preferred Properties

Spectrum Auction Management System

[ [Home](#) | [Change PKI Password](#) | [Logout](#) ]

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## Spectrum Auction Home Page

[\[French Version \(Version Française\)\]](#)

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**Current Round #1 Current Stage #1**

- [Enter Withdrawals and Bids](#)
- [Enter Withdrawals and Bids on Preferred Properties](#)
- [View Schedule](#)
- [Archived Messages](#)
- [View User's Manual](#)

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### Important Message from Industry Canada

Welcome to the 2.3GHZ & 3.5GHZ auction

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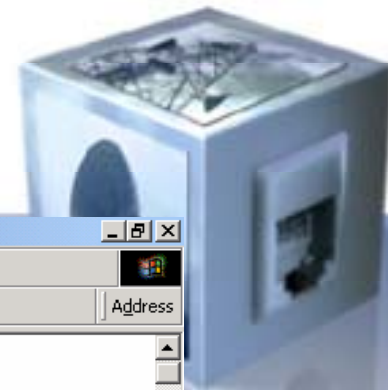
### Previous Round Results

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# Step 1 Submitting Withdrawals - Click on the Selected Properties





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 **Spectrum Auction Management System** 

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**Spectrum Auction Withdrawal and Bid Submission - - Round #1 - Stage #1**  
All withdrawals and bids must be submitted by: 7/18/2000 9:30  
Bidder: **Bidder 1**  
Eligibility: **50 Point(s)**  
Waivers Remaining: **5**

You must have (nor have withdrawn) the current high bid and/or place new bids on licences worth **38 Point(s)** to maintain your current eligibility.

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**Step 1 - Enter Your Withdrawals**

Check the box next to any licence for which you wish to withdraw your bid. When you are done, proceed to Step 2 below.

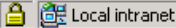
**Please enter your withdrawals**

Enter Withdrawals	Licence	Service Area	Point(s)
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You are not the high bidder on any licence.

---

**Step 2 - Enter Your Bids**

Done 

This presentation is for information only.

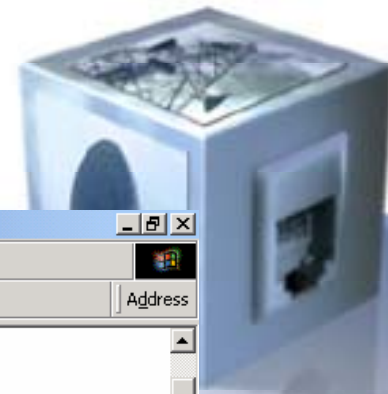
# Bid Withdrawals and Related Penalties



- Bidders have the opportunity to withdraw their standing high bids
- High standing bidders may be penalized for their withdrawals if the final selling price is less than that of the withdrawn bid, then the penalty will be the difference between the two
- If the ultimate selling price of the licence is greater than the withdrawn bid then generally there is no penalty
- To deter the potential misuse of withdrawals, the Department will impose additional penalties on a bidder who uses withdrawals in more than 5 rounds of the auction

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# Step 2 Submitting Bids – Click on the Selected Properties



Spectrum Auction Management System - Access Page - Microsoft Internet Explorer

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## Step 2 - Enter Your Bids

Enter your bids in the table below. When you are done, select Submit Withdrawals and Bids.

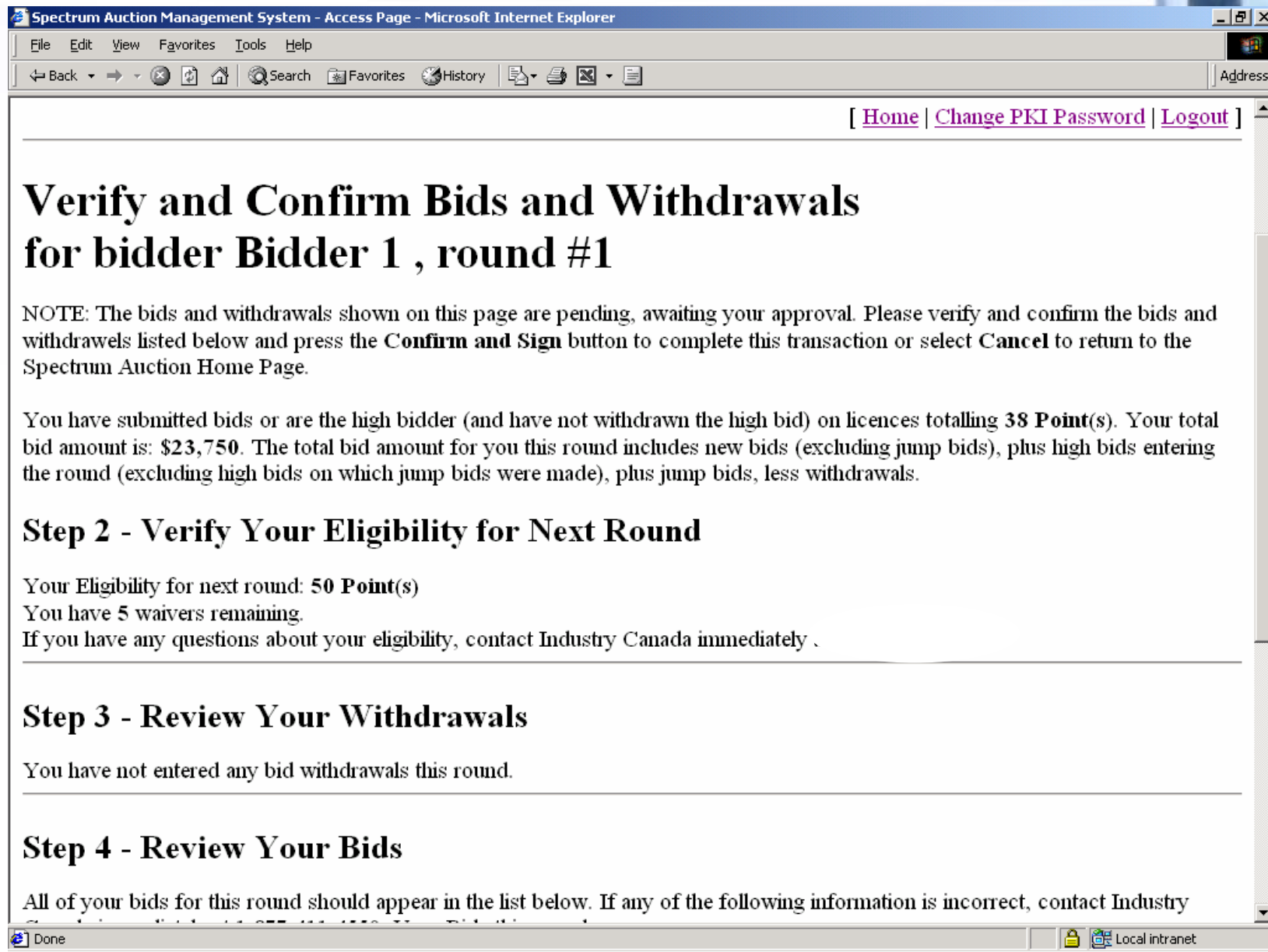
Please enter your bids

Licence	Service Area	Point(s)	Current High Bidder	Bid Amount
4001d	St. John's	24	IC	<input checked="" type="checkbox"/> \$ 15,000
4001e	St. John's	24	IC	<input type="checkbox"/> \$ 15,000
4001f	St. John's	24	IC	<input type="checkbox"/> \$ 15,000
4001g	St. John's	12	IC	<input checked="" type="checkbox"/> \$ 7500
4001w	St. John's	12	IC	<input type="checkbox"/> \$ 7500
4002d	Placentia	2	IC	<input type="checkbox"/> \$ 1250
4002e	Placentia	2	IC	<input type="checkbox"/> \$ 1250
4002f	Placentia	2	IC	<input type="checkbox"/> \$ 1250
4002g	Placentia	1	IC	<input type="checkbox"/> \$ 625
4002w	Placentia	1	IC	<input type="checkbox"/> \$ 625
4003d	Gander/Grand Falls/Windsor	20	IC	<input type="checkbox"/> \$ 12,500
4003e	Gander/Grand Falls/Windsor	20	IC	<input type="checkbox"/> \$ 12,500
4003f	Gander/Grand Falls/Windsor	20	IC	<input type="checkbox"/> \$ 12,500
4003g	Gander/Grand Falls/Windsor	10	IC	<input type="checkbox"/> \$ 6250
4003w	Gander/Grand Falls/Windsor	10	IC	<input type="checkbox"/> \$ 6250

Done Local intranet

This presentation is for information only.

# Confirmation of Bids/Withdrawals



Spectrum Auction Management System - Access Page - Microsoft Internet Explorer

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## Verify and Confirm Bids and Withdrawals for bidder Bidder 1 , round #1

NOTE: The bids and withdrawals shown on this page are pending, awaiting your approval. Please verify and confirm the bids and withdrawals listed below and press the **Confirm and Sign** button to complete this transaction or select **Cancel** to return to the Spectrum Auction Home Page.

You have submitted bids or are the high bidder (and have not withdrawn the high bid) on licences totalling **38 Point(s)**. Your total bid amount is: **\$23,750**. The total bid amount for you this round includes new bids (excluding jump bids), plus high bids entering the round (excluding high bids on which jump bids were made), plus jump bids, less withdrawals.

### Step 2 - Verify Your Eligibility for Next Round

Your Eligibility for next round: **50 Point(s)**  
You have **5** waivers remaining.  
If you have any questions about your eligibility, contact Industry Canada immediately .

### Step 3 - Review Your Withdrawals

You have not entered any bid withdrawals this round.

### Step 4 - Review Your Bids

All of your bids for this round should appear in the list below. If any of the following information is incorrect, contact Industry

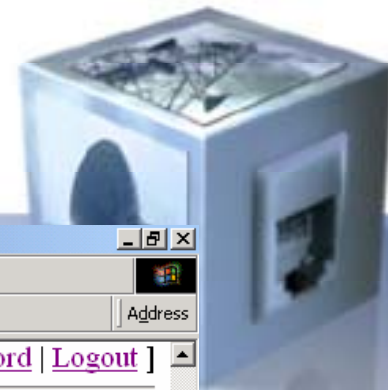
Done Local intranet

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# Receipt for Accepted Bids/Withdrawals



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## Receipt for Accepted Bids and Withdrawals for bidder Bidder 1 , round #1

Your bids and withdrawals have been accepted and recorded as shown on this page. Please print this page for your records.

You have submitted bids or are the high bidder (and have not withdrawn the high bid) on licences totalling **38 Point(s)**. Your total bid amount is: **\$23,750**. The total bid amount for you this round includes new bids (excluding jump bids), plus high bids entering the round (excluding high bids on which jump bids were made), plus jump bids, less withdrawals.

### Step 2 - Verify Your Eligibility for Next Round

Your Eligibility for next round: **50 Point(s)**  
You have **5** waivers remaining.  
If you have any questions about your eligibility, contact Industry Canada immediately

---

### Step 3 - Review Your Withdrawals

You have not entered any bid withdrawals this round.

---

### Step 4 - Review Your Bids

All of your bids for this round should appear in the list below. If any of the following information is incorrect, contact Industry Canada immediately at 1-877-411-4550. Your Bids this round are:

Local intranet



# Tie Bids



- When two or more bids are submitted on the same licence in the same round, the “standing high bidder” will be determined by a random selection process
- All bidders who submitted a bid on that licence will be considered active on that licence for that round

# Non-discretionary Bidding



- New bid amounts for a licence are non-discretionary
  - i.e. the Department will state the exact level of an acceptable new bid
  - Bidders provide a yes/no response to an offered price
- Advantages
  - Reduces chances of signaling through bidding amounts
  - Reduces possibility of erroneous bid amounts
  - Allows for controlled and predictable advancement of bidding activity

This presentation is for information only.

# Bid Increments



- If a licence receives a bid in a given round, then its price will rise in the next round by a predetermined bid increment
- This pacing mechanism ensures that
  - Bidders actively participate in the auction and submit serious bids
  - Auction closes within a reasonable period of time
- Refer to the Policy document and any amendments or supplements for details on bid increments



# Activity Rules



- This pacing mechanism ensures that
  - Bidders actively participate in the auction and submit serious bids
  - Auction closes after a reasonable period of time
- If bidders wish to maintain their eligibility points from the previous round, their activity level must correspond to a certain percentage of their eligibility points

# Activity Rules – cont'd



- This percentage will range from
  - 60%-80% in the first stage
  - 80%-90% in the second stage
  - 100% of their eligibility points in the third stage
  - Activity cannot exceed a bidder's eligibility level
- Bidders are considered active on a licence if they have submitted a bid on that licence in the current round or if they are the standing high bidder on that licence from the previous round

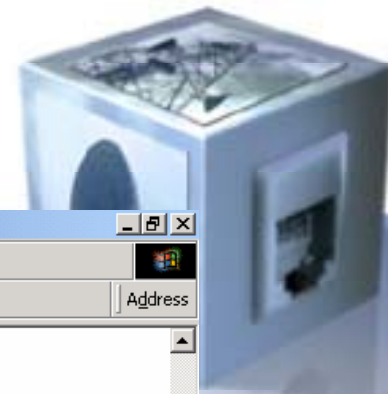
# Failure to Meet Required Activity Level



- Failure to meet the minimum required activity level will result in either
  - An automatic waiver being submitted on the bidder's behalf if the bidder has any waivers remaining, or
  - If the bidder has no waivers remaining or selects to override the automatic waiver, the number of eligibility points will decrease proportionately in the next round
- Bidders cannot add to their activity level by topping their own standing high bids since they are already considered active by being the standing high bidder on these licences
- There is no mechanism for increasing or reinstating eligibility points once reduced

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# Reduced Eligibility



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## Eligibility Reduction Warning

You have not entered enough bids to maintain your eligibility.

### Step 2 - Decide if You Want to Use a Waiver

You must place bids (or be the high bidder on) licences worth at least 38 Point(s) to maintain your current eligibility. You have placed bids on 0 Point(s) worth of licences. You can decide to reduce your eligibility, use a waiver, or [re-enter all of your bids](#).

Use a Waiver  
 Reduce My Eligibility

### Step 3 - Confirm

Select Confirm to submit your bids and withdrawals as you have entered them. Otherwise, you can [re-enter all of your bids](#).

You have not entered any withdrawals this round.

You have not entered any new bids this round.

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# Activity Rule Waivers

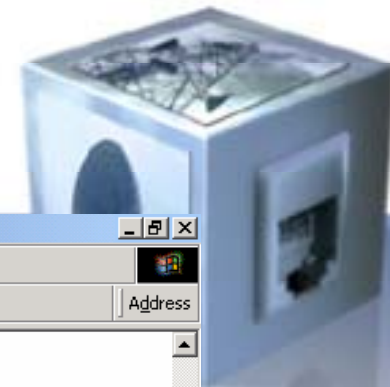


- A “safety net” to preserve a bidder’s eligibility points when bidders make mistakes during bidding or in case of technical or communication problems
- Bidders have 5 waivers initially but, as the auction progresses and the number of rounds per day increases, the Department may, at its discretion, award additional waivers
- Bidders will be notified if their activity is less than the minimum required to maintain full eligibility and offered the choice of
  - submitting a waiver (to maintain eligibility) or
  - not submitting a waiver (i.e. losing eligibility in next round)
- Use of a waiver is the default setting in the software system in case of technical problems

**Bidders are advised to use waivers judiciously**



# How to Use a Waiver



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## Eligibility Reduction Warning

You have not entered enough bids to maintain your eligibility.

### Step 2 - Decide if You Want to Use a Waiver

You must place bids (or be the high bidder on) licences worth at least 38 Point(s) to maintain your current eligibility. You have placed bids on 0 Point(s) worth of licences. You can decide to reduce your eligibility, use a waiver, or [re-enter all of your bids](#).

Use a Waiver  
 Reduce My Eligibility

### Step 3 - Confirm

Select Confirm to submit your bids and withdrawals as you have entered them. Otherwise, you can [re-enter all of your bids](#).

You have not entered any withdrawals this round.

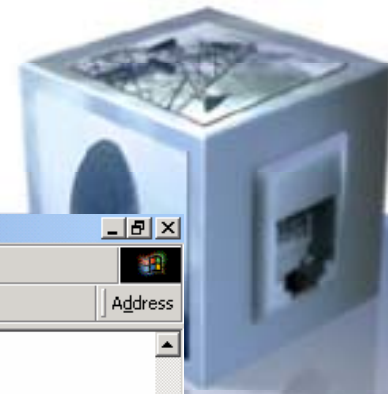
You have not entered any new bids this round.

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# Round Results via AMS



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### Important Message from Industry Canada

Welcome to the 2.3GHZ & 3.5GHZ auction

### Previous Round Results

[Round 1 Results](#)

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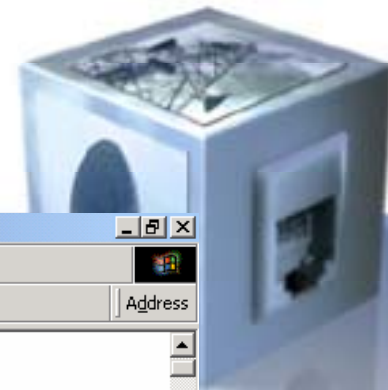
Industry  
Canada

Industrie  
Canada

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The policies and rules associated with the spectrum auction are set out in their entirety in the official Policy document and in any written amendments or supplements that may be issued by the Department.

# Round Results via AMS – cont'd



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## Round 1 Bidding Results

Results Calculated on: 11/22/2002 at 09:47:00

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[View Results by Licence](#)

[View Results by Bidder](#)

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### Files Available (.dbf format for use with BTS software)

To download, click on the link of the desired file and then save.

[Download High Bids \(dbf\)](#)

[Download Withdrawals \(dbf\)](#)

[Download All Bids \(dbf\)](#)

[Download Eligibility File \(dbf\)](#)

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### Files Available (.txt format)

To download, click on the link of the desired file and then save.

[Download High Bids \(text\)](#)

[Download Withdrawals \(text\)](#)

[Download All Bids \(text\)](#)

[Download Eligibility File \(text\)](#)

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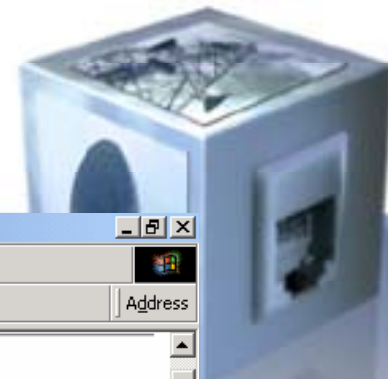
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# Round Results via AMS – cont'd



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### Results by Licence

Licence	Service Area	High Bidder	High Bid	Bid Amount for Round 2	All Bids Received, listed in alphabetical order
4001a	St. John's 5 Point(s)	Bidder 10	\$300,000	\$350,000	1. Bidder 1 \$300,000 2. Bidder 2 \$300,000 3. Bidder 4 \$300,000 4. Bidder 5 \$300,000 5. Bidder 6 \$300,000 6. Bidder 7 \$300,000 7. Bidder 8 \$300,000 8. Bidder 9 \$300,000 9. Bidder 10 \$300,000
4001b	St. John's 5 Point(s)	Bidder 4	\$300,000	\$350,000	1. Bidder 1 \$300,000 2. Bidder 2 \$300,000 3. Bidder 4 \$300,000 4. Bidder 5 \$300,000 5. Bidder 6 \$300,000 6. Bidder 7 \$300,000 7. Bidder 8 \$300,000 8. Bidder 9 \$300,000 9. Bidder 10 \$300,000
4001c	St. John's 5 Point(s)	Bidder 8	\$300,000	\$350,000	1. Bidder 1 \$300,000 2. Bidder 2 \$300,000 3. Bidder 4 \$300,000 4. Bidder 5 \$300,000 5. Bidder 6 \$300,000 6. Bidder 7 \$300,000 7. Bidder 8 \$300,000 8. Bidder 9 \$300,000

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# Stage Changes



- Auction is divided into three stages
  - Each stage contains an unspecified number of rounds
  - Each stage has a minimum required activity level
- Department will announce stage changes in advance
  - Stage changes occur when bidding activity declines to a low level as determined by the Department
- Bidders should check their required minimum activity levels after every round and especially after a stage change has occurred

# Pro-Active Waivers



- When a round during stage 3 goes by without any bids having been submitted on any licences, pro-active waivers can be used to keep the auction open
- After such a round, bidders will be advised that the auction will close unless a proactive waiver is submitted
- Bidders who have waivers remaining may submit a proactive waiver by calling a specified telephone number within a specified time period
- All bidders who call will have one of their waivers deducted and the auction will continue
- If no pro-active waivers are submitted, the auction will close

This presentation is for information only.

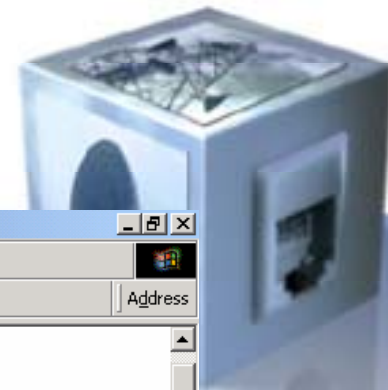
The policies and rules associated with the spectrum auction are set out in their entirety in the official Policy document and in any written amendments or supplements that may be issued by the Department.

# End of Auction



- The rounds continue until there is a round in the third stage in which no new bids, withdrawals, or pro-active waivers are submitted
- The standing high bidders on each licence at the auction's close will be deemed the provisional winners of those licences

# Important Messages

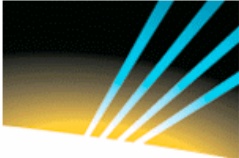
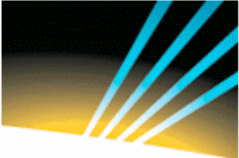


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### Important Message from Industry Canada

Welcome to the 2.3GHZ & 3.5GHZ auction 

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### Previous Round Results

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# For More Information



- All information and documentation regarding past and upcoming auctions is available online at <http://strategis.gc.ca/spectrumauctions>
- If you have any comments or suggestions on how to improve our training materials, please send us an e-mail to [spectrum.auctions@ic.gc.ca](mailto:spectrum.auctions@ic.gc.ca)