



IBM Power Systems - IBM i

Modernisation, développement d'applications et DB2 sous IBM i
Technologies, outils et nouveautés 2012-2013

8 et 9 avril 2013 – IBM Client Center Paris, Bois-Colombes

S30 - IBM i Access for Web et requêtes SQL

Mardi 9 avril – 15h15-16h45

Patrick THOMAS

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Portail

IBM i information center x IBM PartnerWorld - Syst x IBM PDF Output Settings x IBM Homepage [v159225.dal-e x PDF Output Settings x IBM Homepage [v155240.dal-e x

vlp71:2020/webaccess/iWAHome

User: pthomas System: v159225.dal-ebis.ihost.com

IBM i Access for Web

Welcome to IBM i Access for Web

My Home Page

- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Download
- Customize
- Other

Related Links:

- IBM i Access for Web
- IBM i Access
- IBM Navigator for i
- IBM i Information Center
- IBM i resources

Getting Started

My Information

- My Folder
- Printer output
- Display messages
- Start a 5250 session
- Database requests
- Browse files
- Preferences

My View

- See [Customizing IBM i Access for Web](#) to find out how to customize the behavior and look of IBM i Access for Web. Also, find out how to create your own home page!

Related Products

- [WebSphere Application Server for IBM i](#)
- [IBM Rational Development Studio for i](#)
- [WebSphere Development Studio Client for System i](#)

What is IBM i Access for Web

A new generation of software that enables you to access your system information and resources through a web browser!

Browser Access to IBM i Information

The Internet movement has taken over, and businesses are quickly moving to embrace new technologies through e-business. Since most desktop operating systems come with web browsers, users want an easy way to work with their business-critical IBM i information and resources through the simple browser user interface that has been designed to be Internet-friendly. Users also are looking for hassle-free access through firewalls. They want access from a variety of platforms, and want no special client code that has to be installed and maintained on their desktop.

Easy Administration

IBM i administrators are looking for ways to streamline management of user access to information in the enterprise through centrally controlled administration built around IBM i user profiles. Additionally, administrators want to customize a user's view of the system, so those not familiar with the IBM i operating environment can easily and productively work with its database and other resources.

Key Capabilities

IBM i Access for Web, a new member of the IBM i Access family of products, provides software that runs in a browser and provides a user-centric, web-based view of system information and resources. It provides key capabilities, such as:

- Browser access to existing 5250 applications without requiring code changes
- Easy access to DB2(R) for IBM i information through stored SQL requests
- A simple interface to work with information in the integrated file system, including file download and view capabilities
- The ability to display and manage printers and printer output
- Configuration options to provide a fully customizable view, for individual users or groups of users, when connecting to the target system
- The ability to bookmark commonly used tasks and to place links to IBM i Access for Web URLs on user-created pages
- No client code to install and manage
- IBM i resource access validated using object level security
- Use of industry standard protocols such as HTTP and HTTPS
- Easy management of firewall considerations since there is no reliance on proprietary TCP/IP ports and protocols

Rochester information

- City information
- Movies
- Mayo Clinic

Rochester weather

9°C

SkyCam

Rochester news

- Post-Bulletin online
- KTTC

Telephone directory

- Find a person
- Find a business

i Access for Web ?

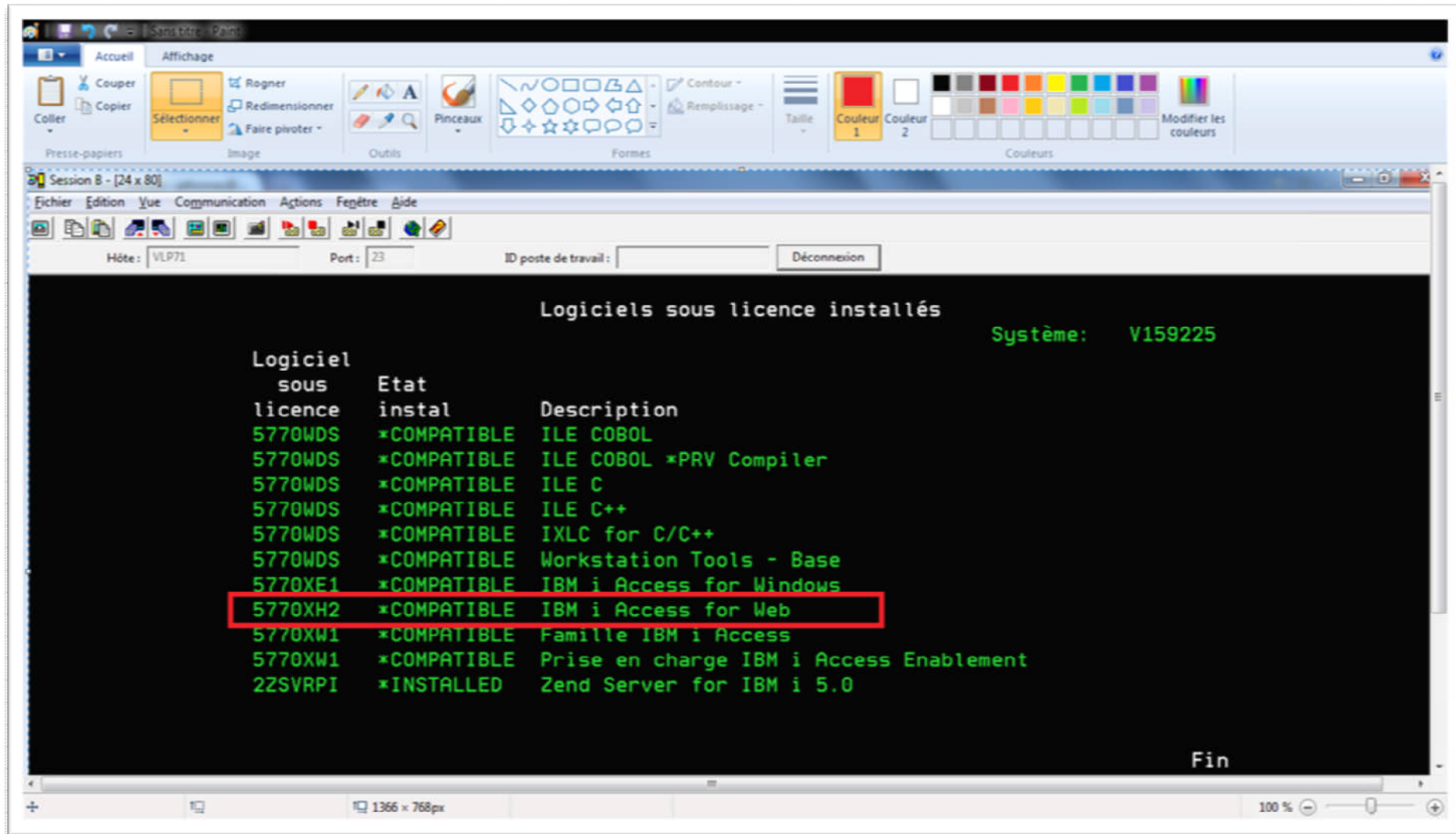
- **Permet un accès à l'IBM i à travers un navigateur**
 - Emulateur 5250
 - Accès à la base de données, IFS, imprimantes, files d'attentes, travaux
 - Permet d'exécuter des commandes CL, d'envoyer et de recevoir des messages, etc..

- **Avantages**
 - Server Based : Un simple émulateur suffit (multiplateforme, pas de configuration supplémentaire, pas d'applets installés sur le client)
 - Les protocoles standards sont supportés (HTTP, HTTPS et HTML)
 - Multi-langue et supportant tous les « code page » : DBCS

Installation

- Google : *cfgaccweb2 *intappsrv*
- V5R4 :
<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/index.jsp?topic=%2Frzamm%2Frzammxmpintegrsrv.htm>
- V6R1 :
<http://pic.dhe.ibm.com/infocenter/iseriess/v6r1m0/index.jsp?topic=%2Frzamm%2Frzammxmpintegrsrv.htm>
- V7R1 :
<http://pic.dhe.ibm.com/infocenter/iseriess/v7r1m0/index.jsp?topic=%2Frzamm%2Frzammxmpintegrsrv.htm>

Logiciel sous licence



The screenshot shows a Windows Remote Desktop session titled "Session 8 - [24 x 80]". The interface includes a Windows taskbar at the top with various icons and a ribbon menu. Below the taskbar is a menu bar with options like "Fichier", "Edition", "Vue", "Communication", "Actions", "Fenêtre", and "Aide". The main area of the window displays a terminal window with the following text:

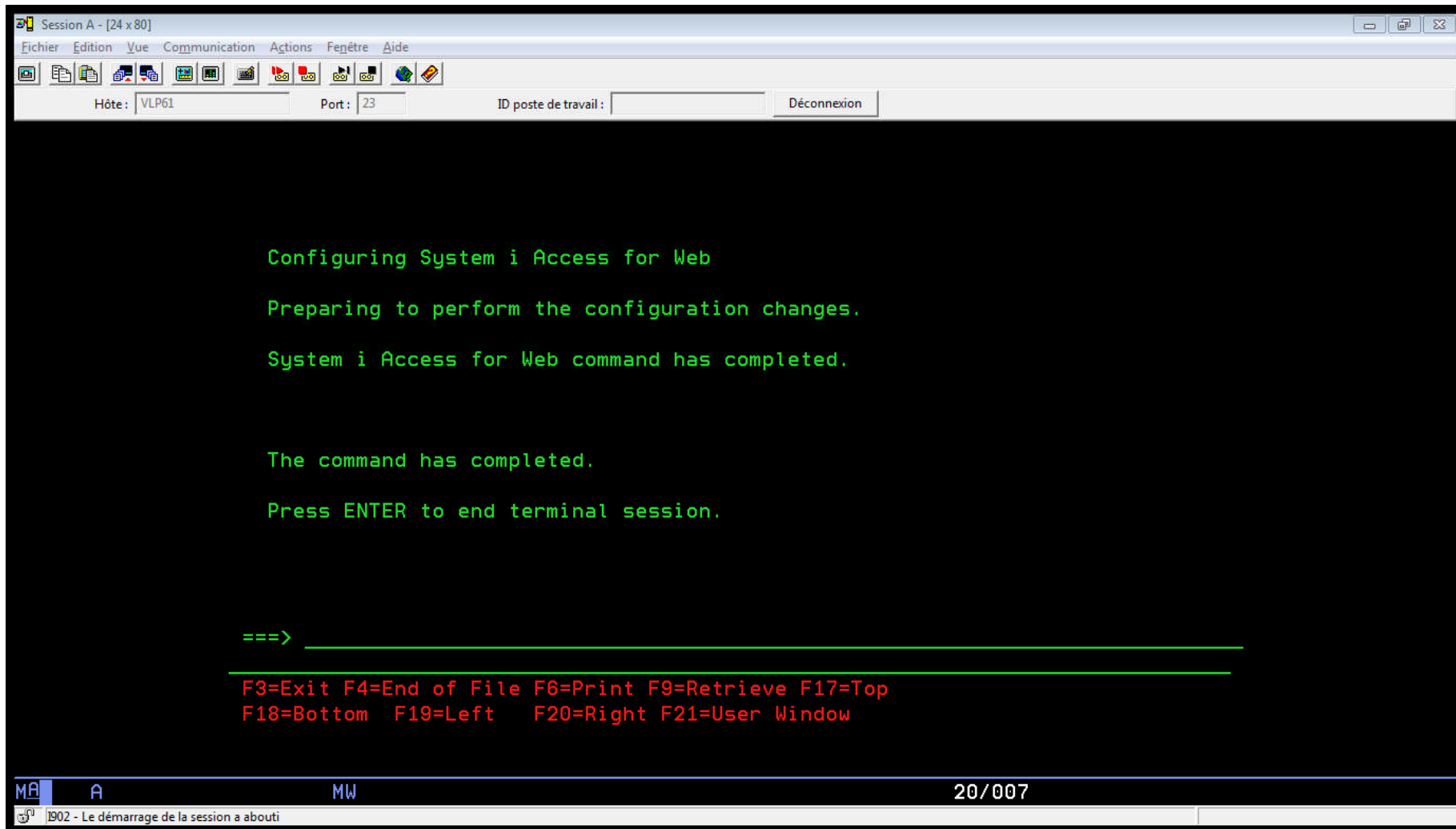
```
Logiciels sous licence installés                                     Système:  V159225

Logiciel sous licence      Etat      Description
5770WDS *COMPATIBLE ILE COBOL
5770WDS *COMPATIBLE ILE COBOL *PRV Compiler
5770WDS *COMPATIBLE ILE C
5770WDS *COMPATIBLE ILE C++
5770WDS *COMPATIBLE IXLC for C/C++
5770WDS *COMPATIBLE Workstation Tools - Base
5770XE1 *COMPATIBLE IBM i Access for Windows
5770XH2 *COMPATIBLE IBM i Access for Web
5770XW1 *COMPATIBLE Famille IBM i Access
5770XW1 *COMPATIBLE Prise en charge IBM i Access Enablement
2ZSVRPI *INSTALLED Zend Server for IBM i 5.0

Fin
```

The terminal window also shows connection details: "Hôte: VLP71", "Port: 23", and "ID poste de travail: []". A "Déconnexion" button is visible in the top right of the terminal area. The bottom of the window shows a status bar with "1366 x 768px" and "100 %".

QIWA2/CFGACCWEB2 APPSVRTYPE(*INTAPPSVR)



The screenshot shows a terminal window titled "Session A - [24 x 80]". The menu bar includes "Fichier", "Edition", "Vue", "Communication", "Actions", "Fenêtre", and "Aide". The toolbar contains various icons for file operations. Below the toolbar, there are fields for "Hôte: VLP61", "Port: 23", and "ID poste de travail: ". A "Déconnexion" button is also present. The main terminal area displays the following text in green:

```
Configuring System i Access for Web  
Preparing to perform the configuration changes.  
System i Access for Web command has completed.  
  
The command has completed.  
Press ENTER to end terminal session.
```

Below this text, there is a green prompt "===>" followed by a horizontal line. At the bottom of the terminal area, there is a red legend for function keys:

```
F3=Exit F4=End of File F6=Print F9=Retrieve F17=Top  
F18=Bottom F19=Left F20=Right F21=User Window
```

The bottom status bar shows "MA A MW" on the left, "20/007" in the center, and "1902 - Le démarrage de la session a abouti" on the right.

Serveur Apache

- ENDTCP SVR SERVER(*HTTP) HTTPSVR(*ADMIN)
- STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
- STRTCPSVR SERVER(*HTTP) HTTPSVR(IWADFT)

http://<nom_système>:2020/webaccess/iWAMain

IBM Web Administration for i

Setup **Manage** Advanced | Related Links

All Servers HTTP Servers | Application Servers | Installations

Common Tasks and Wizards

- Create Web Services Server
- Create HTTP Server
- Create Application Server
- Create WebSphere Portal

Manage All Servers ?

All HTTP Servers All Application Servers

Data current as of 4 avr. 2013 17:54:33.

Server	Version	Status	Address:Port	Associated Application Server	Description
ADMIN	Apache/2.2.11 (i5)	Running	*:2001	None	Administration server
AJSP	Apache/2.2.11 (i5)	Stopped	*:8210	AJSPervasive	
APACHEDFT	Apache/2.2.11 (i5)	Stopped	*:80	None	IBM supplied sample HTTP server (powered by Apache)
IWADFT	Apache/2.2.11 (i5)	Running	*:2020	None	
QIWIRELESS	Apache/2.2.11 (i5)	Stopped	*:9004	QIWIRELESS	
WQLWIZ	Apache/2.2.11 (i5)	Stopped	*:11331	WQLWIZ	

Personnalisation 1 sur 3 : Généralités

IBM i Access for Web

User: pthomas System: v159225.dal-ebis.ihost.com

Edit Policies - General

Profile: *PUBLIC

Policy	Derived From	Action	Setting
Home page HTML file	Shipped default	Use current setting	/QIBM/ProdData/Access/Web2/html/homepage.ht Browse...
Template HTML file	Shipped default	Use current setting	/QIBM/ProdData/Access/Web2/html/webaccess.ht Browse...
Main page HTML file	Shipped default	Use current setting	/QIBM/ProdData/Access/Web2/html/overview.htm Browse...
Home page	Shipped default	Use current setting	Allow
Template	Shipped default	Use current setting	Allow
Navigation	Shipped default	Use current setting	Allow
Related links	Shipped default	Use current setting	Allow
Navigation bar	Shipped default	Use current setting	Show
Display action links as images	Shipped default	Use current setting	Yes
Default rows per page	Shipped default	Use current setting	25
Default pages per set	Shipped default	Use current setting	10
Preferred language	Shipped default	Use current setting	None
Preferred character set	Shipped default	Use current setting	None
PDF font directories	Shipped default	Use current setting	Browse...
Additional PDF font directories	Shipped default	Use current setting	Browse...
Temporary file settings	Shipped default	Use current setting	Settings...

[Save](#) [Cancel](#) [Apply](#)

[Policies help](#)
View help for editing policies.

IBM | IBM i | Support 7.1.0.09-250.SI36506

Personnalisation 2 sur 3 : Serveur SMTP

IBM i Access for Web

User: pthomas System: v159225.dal-ebis.ihost.com

Edit Policies - Mail

Profile: *PUBLIC

Policy	Derived From	Action	Setting
Mail access	Shipped default	Use current setting	Allow
Send mail	Shipped default	Use current setting	Allow
Use directory entry information	Shipped default	Use current setting	Yes
Use SMTP domain for mail server	Shipped default	Use current setting	Yes
SMTP mail server	Profile setting	Use current setting	mail.oo2.fr
E-mail address is user preference	Shipped default	Use current setting	Allow

[Policies help](#)
 View help for editing policies.

Related Links:

- IBM i Access for Web
- IBM i Access
- IBM Navigator for i
- IBM i Information Center
- IBM i resources

IBM | IBM i | Support 7.1.0.09-250.SI36506

Personnalisation 3 sur 3 : Adresse mail

IBM i Access for Web

User: pthomas System: v159225.dal-ebis.ihost.com

Edit Preferences - Mail

Preference	Derived From	Action	Setting
E-mail address	Profile setting	Use current setting	pthomas@oo2.fr

[Save](#) [Cancel](#) [Apply](#)

[Preferences help](#)
View help for editing preferences.

My Home Page

- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Download
- Customize
 - Preferences
 - Policies
 - Settings
 - Transfer configuration
- Other

Related Links:

- IBM i Access for Web
- IBM i Access
- IBM Navigator for i
- IBM i Information Center
- IBM i resources

IBM | IBM i | Support

7.1.0.09-250.SI36506

Démonstration 1/4 : Spools par mail (PDF)

My Home Page

- My Folder
- Print
 - Printer output
 - PDF printer output
 - Printers
 - PDF printers
 - Internet printers
 - Internet printer shares
 - Printer shares
 - Output queues
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Download
- Customize
- Other

Mail as Attachment Settings

From: pthomas@oo2.fr

To:

cc:

bcc:

Subject: Liste des encours clients

Text:

Bonjour,
....

Attachment: QSYSPRT.003264.PTHOMAS.QPADEV0001.1.PDF

[Print help](#)
View help for sending printer output as a mail attachment.

Démonstration 2/4 : Emulateur 5250

My Home Page

- My Folder
- Print
- Messages
- Jobs
- 5250
 - Active sessions
 - Configured sessions
 - Start session
- Database
- Files
- Command
- Download
- Customize
- Other

Related Links:

- IBM i Access for Web
- IBM i Access
- IBM Navigator for i
- IBM i Information Center
- IBM i resources

Ouverture

Système : V159225
 Sous-système ... : QINTER
 Ecran : QPADEV0004

Utilisateur
 Mot de passe
 Programme/procédure
 Menu
 Bibliothèque en cours

(C) COPYRIGHT IBM CORP. 1980, 2009.

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6,53

Attention	Refresh Screen	Field Exit	Page Up	Enter
System Request	Stop Session	Reset	Page Down	

Macros

Start Recording

Démonstration 3/4 : Divers

- Gestion des messages et Travaux
- Possibilité de « zipper » et d'envoyer par mail des répertoires et fichiers de l'IFS
- Soumission de commandes CL et envoi de mails quand le traitement terminé
- Recherches de commandes
- Zone de téléchargements

Démonstration 4/4 : Database

The screenshot displays the IBM i Access for Web Data interface in a browser window. The address bar shows the URL: `http://vlp71:2020/webaccess/iWAMain?tab=database`. The page is titled "Database" and provides instructions on how to access database tables. The left sidebar contains a navigation menu with categories like "My Home Page", "Database", "Files", "Command", "Download", "Customize", and "Other". The main content area is divided into several sections, each with a list of actions:

- Database**: Access database tables with IBM i Access for Web.
- Tables**:
 - View a list of database tables on your target system.
 - Perform actions on these tables without having knowledge of SQL and its syntax.
 - View the contents of a table in a paged list, using the Quick view action.
 - Add and update records in a table using the Insert and Update actions.
 - Display the contents of a table record using the Find record action.
 - Create your own customized SQL request for a table using the Run SQL action.
 - Create your own customized copy data request for a table using the Copy data to table action.
- My requests**:
 - View a list of previously saved requests.
 - Run or Edit requests from this list.
 - Manage lists using the Copy, Delete, and Rename actions.
 - Create and manage shortcuts to requests.
- Run SQL**:
 - Run SQL statements dynamically.
 - View output as a paged list or in a popular file format, like Microsoft Excel or Lotus 1-2-3. (Output format depends on how you have your browser configured and whether the browser can locate a plug-in for the output type you choose.)
 - Customize how data is returned by setting options specific to the output type.
 - Build SELECT statements using an SQL Wizard.
 - Save requests for repeated use.
- Copy data to table**:
 - Copy existing data files from your PC to a database table on your target system.
 - These data files can be in many popular file formats, including Microsoft Excel and Lotus 1-2-3.
 - Replace the contents of a table or add data to an existing table.
 - Create a new database table based on the contents of a workstation file.
 - Save requests for repeated use.
- Import request**:
 - Import Client Access Data Transfer upload and download requests into IBM i Access for Web copy data and SQL requests.
 - Imported requests are automatically converted to IBM i Access for Web format.
 - Run and edit converted requests just like other copy data and SQL requests.
- Import query**:
 - Import queries generated by Query for IBM i and DB2 for IBM i Query Manager.
 - Imported queries can be saved into IBM i Access for Web database requests.
 - Run and edit converted queries just like other IBM i Access for Web SQL requests.
- Extract IBM i data**:
 - Extract IBM i object information into a database table.

At the bottom of the page, there is a footer with the text "IBM | IBM i | Support" on the left and "7.1.0.09-250.SI36506" on the right.

DataBase : Tables

- Données d'une table
 - Visualisation,
 - Mise à jour,
 - Recherche de lignes
 - Import / Export de données
 - Requêtes SQL

Copy Data to Table

File to Copy

File: sqlOutput.xml

File type:

Table to Receive Data

Table:

Action:

Connection

Connection:

DataBase : Imports

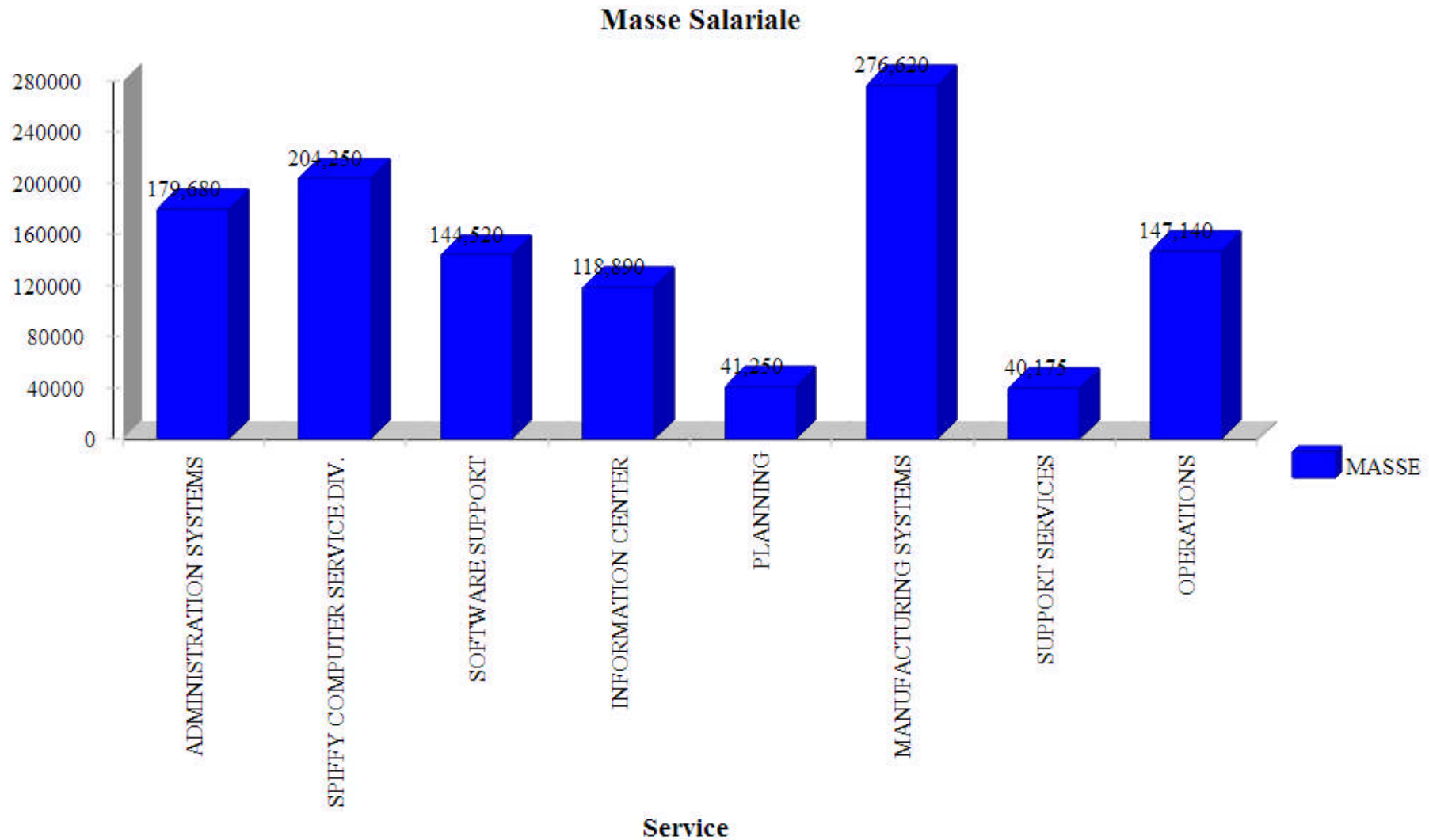
- Import de requêtes Client Access
 - conversion en requête SQL
 - formats supportés :
 - DTF & TTO (Data Transfer from IBM i)
 - DTT, TFR (Data Transfer to IBM i)

- Import des Query
 - conversion en requête SQL
 - formats supportés :
 - QMQRY (Query Manager)
 - QRYDFN (Query/400)

DataBase : Requêtes SQL

- Formats supportés
 - Comma Separated Value (.csv)
 - Data Interchange Format (.dif)
 - Extensible Markup Language (.xml)
 - Hyper Text Markup Language (.html)
 - Lotus 1-2-3 Version 1 (.wk1)
 - Microsoft Excel 3 & 4 (.xls)
 - Microsoft Excel XML (.xml)
 - OpenDocument Spreadsheet (.ods)
 - Portable Document Format (.pdf)
 - Scalable Vector Graphics Chart (.svg)
 - Texte (.txt)

DataBase : Requêtes SQL



DataBase : Requêtes SQL

■ Destination

- Navigateur
- IFS
- Dossier personnel
- E-mail

Mail as Attachment Settings

From: pthomas@oo2.fr

To:

cc:

bcc:

Subject:

Text:

Attachment: sqlOutput.

Always prompt for mail settings when request is run

OK

Cancel

DataBase : Requêtes SQL

- L' « Assistant SQL » permet de vous faciliter la tâche si vous n'êtes pas familier avec les ordres SQL et vous permet aussi de créer des requêtes avec des paramètres qui seront demandées à l'utilisateur au moment de l'exécution de la requête.

SQL Wizard

```
SELECT
*
FROM
  JEUESSAI.EMPLOYEE AS T1
  INNER JOIN
  JEUESSAI.DEPARTMENT AS T2
  ON ( ( T1.WORKDEPT = T2.DEPTNO )
```



Join

Action	Join Type	Tables	Condition
	INNER	JEUESSAI.EMPLOYEE (T1) JEUESSAI.DEPARTMENT (T2)	T1.WORKDEPT = T2.DEPTNO

Condition Operator

Column: T1.SEX CHAR(1)

Column > [Operator]

Select an operator.

- Exactly equal to
 Between
 Contains the characters
 Not equal to
 Not between
 Starts with the characters
 After
 Null
 Ends with the characters
 After or equal to
 Not null
 Before
 Before or equal to

DataBase : Requêtes SQL

- Définition des requêtes dans

/qibm/userdata/Access/Web2/intappsvr/Admin/users/USER/db/requests/

```
destType=brws  
conn=IBM Toolbox for Java - v159225.dal-ebis.ihost.com  
timeFmt=2  
dateFmt=3  
sql=Select * from jeudessai.employee  
fileType=pdf  
pdf.maxTblRows=  
pdf.pageLbl=page  
pdf.pageOrien=land  
pdf.tblHdrAlgn=center  
pdf.tblFtAlgn=left  
pdf.colDataNumAlgn=right  
pdf.tblHdrTxt=Liste des employés  
pdf.leftMargin=10  
pdf.topMargin=5  
pdf.maxRows=  
pdf.pageLblLoc=botCt  
pdf.colDataTxtAlgn=left  
pdf.tblAlgn=left  
pdf.tblStyle=striped  
pdf.pageSize=a4  
...
```

DataBase : Automatisation des tâches

- Utilitaire **iWATask.jar**
 - Exécution depuis n'importe quelle plateforme
 - Attention mot de passe en « clair » dans l'archive

Exemple d'exécution :

Upload dans /home/USER

QSH CMD('java -jar iWATask.jar')

Create Automated Task

Request:	Employes
User profile:	pthomas
Password:	<input type="text"/>
Confirm password:	<input type="text"/>
Output file:	sqlOutput.pdf
Java archive:	iWATask.jar

[Create Automated Task](#)

[Database help](#)

View help for creating an automated task.

iWATask.jar

- *iWATask.jar* nous permet de planifier depuis n'importe quelle plateforme (Unix, Linux, Windows, IBM i) l'exécution d'une requête SQL sur l'IBM i et de produire le résultat attendu sous la forme de documents variés issus des standards du marché (XLS, PDF, XML, CSV, etc...). Le document produit peut-être aussi acheminé par e-mail à plusieurs destinataires, sans qu'il soit nécessaire de savoir programmer ou de créer le moindre programme.

L'utilitaire « maison » iWASql

Edition de demande SQL

Instruction SQL ?

[1]

Assistant SQL

Sortie SQL ?

Type : Portable Document Format (.pdf) **Paramètres**

Cible : Courrier (pièce jointe) **Paramètres**

Format ?

Date : 23/01/10

Heure : 16:28:14

Connexion ?

Connexion : IBM Toolbox for Java - sirocco.alizes.fr

Exécution d'instructions SQL **Sauvegarde de demande...**

Paramètres d'envoi en pièce jointe

De : patrick.thomas@alise-technologies.fr

A : [3]

cc :

bcc :

Objet : Document [2] par mail

Texte :

[2] en attachement extrait avec la requête : [1]

Pièce jointe : sqlOutput.pdf

Toujours proposer les paramètres de courrier lors de l'exécution d'une demande

OK **Annulation**

L'utilitaire « maison » iWASql

- Exemple :
 - Upload dans un répertoire « en ligne » ex: /bin

```
iWASql -s MaRequete -p MOTPASSE
```

```
“Select * from jeudessai.employee where sex = ‘F’ “  
‘monmail@mondomaine.fr’
```

```
[-s source] [-t target] [-p password] [-j Jar File] [-v]
```

IBM i Access for Web et requêtes SQL

MERCI