

IBM Software Group WebSphere software	IBM
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IBM Software Group WebSphere software	IBM
Mby the DCE2	
Wily the ROL?	
Integrated set of tools for developing i5/OS applications	
 Tools based on Eclipse open source IDE 	
 RPG, COBOL, DDS, CL 	
 Integrated with change management systems 	
 Open source tools 	
 Vendor tools 	
Improve productivity for native development	
 Closely integrated edit, compile, run / debug experience 	
 Tools to help better understand large applications 	
 Setup and customize development environment based on projects and individual preferences 	
Lower learning curve for other technologies	
 Learn the Workbench tools with RPG / COBOL development 	
 Then branch into Web, XML and Web Services development using the same tools platform 	
	i i
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IBM Software Group WebSphere software	IEM
Agenda	
IBM System i [™] Developer Roadmap	
Packaging and Install	
 Remote System Explorer (RSE) – Getting started 	
 Accessing libraries, objects, and members 	
 Remote Systems LPEX Editor 	
 Other cool (and useful) features 	
 Integrated Debugger 	
16 IBM System i5 Tools Remote System Explorer	© 2004 2007 IBM Corporation

IBM Software Group	WebSphere software	IBM
Customizing a Conr	nection - 2	
Series Obje	icts 📃 🔲 🔯	
Command Execution	Command Execution	
Initial Ubrery List Subsystem	Properties for numing remote commands or compiles. Each can be specified uniquely for this connection, or interted from the Remote Systems Sidentes-Sidomand Execution preferences appa. To specify a property uniquely for this connection, toggle the button to the left of the property so that the arrow is pointing to the right:	
	Properties for complex and user action variables	
	Properties for batch complete, commands, and user action variables Prob description iterative Prob description Properties Properties	
	Properties only for user action variables	
	OK Cancel	
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In	troducing Filters	
	 Eventually you will need to see a subsetted list Using criteria like generic names, types and attributes 	
	 All subsystems (nodes under a connection) support "filters" 	
	 These allow fine-grained control over what is shown in the RSE. 	
	 To create a filter, right click on any subsystem and select New -> xxx iSeries Objects -> New -> Library Filter, Object Filter, Member Filter 	
	 iSeries Commands -> New -> Command Set 	
	 iSeries Jobs -> New -> Job Filter 	
	 IFS Files -> New -> Filter 	
	 Or use the fastpath Work With XXX prompts under iSeries Objects 	
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iSeries Table View	
 Remote Systems View Tree view of resources Great for seeing hierarchical structure Library > Object > Member Not natural for people used to PDM 	
 iSeries Table View Table view of resources showing additional attributes Select "Show in Table" from the pop-up menu of any filter, library, or file in the Remote Systems View 	
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	IBM Softw	are Gro	oup Wel	Sphere softv	vare			IBM
iSeries	Table	Vie	W	<mark>√Use</mark> ac	loca ditio	<mark>il pulldov</mark> onal colu	wn to see umns	
Library RSELAB	01 (20 Objects)			ि सं⇔	₽ ₽	\bigcap_{k}	Can also	
Name	Type	Attribute	Text	Work with			✓ Change contents	
	*PGM	CLIF	debungable	s. calk			· Subset contents	
CIR1	*PGM	CLE	debuggabl	Subset			 Subset Contents 	
MYCOMPILE	*PGM	CLLE	abbaggabi	Show All			✓ Position list	
PAYROLLD	*PGM	CBLLE	no errors	Additional Inl	ormation			
DAVPOLLS	*DGM	DDCI F		Position to			✓ Print list	
<				Print				
Remote System Deta	ails Tasks iSeries T	able View is	<mark>Series Commands</mark> Objects)	Log			>₩ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
	Name	Туре	Attribute Te	×t	Status	Last modified	Created Size 🔨	
	CLC1	*PGM	CLLE de	buggable, calls Pay	ок	July 17, 2003	July 17, 2003 4:13:24 PM EDT 81920	
	CLR1	*PGM	CLLE de	buggable, calls Pay	ОК	July 17, 2003	July 17, 2003 4:13:24 PM EDT 81920	
	MYCOMPILE	*PGM	CLLE		ОК	July 17, 2003	July 17, 2003 4:13:24 PM EDT 73728	
	N PAYROLLD	*PGM	CBLLE no	errors	ОК	July 17, 2003	July 17, 2003 4:13:24 PM EDT 360448	
	< PAVDOLLC	*DGM	OD/CI F		Or	Tolo 17, 2003	30/0 17 2003 4:13:24 DM EDT 360448	
	Command Norr	nal					Prompt Run	
	Messages Libra	ary RSELABO	1 already exists i	n library list.			Details Show Log	
	Remote System	Details Tas	sks (iSeries Table	View Series Command	ds Log			
29	IBM System i	5 Tools	Remote Syste	m Explorer			© 2004 2007 IBM (Corporation

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Remote Systems LPEX Editor	
What happens during editing?	
 Double click on member or select Open With > Remote Systems LPEX Edito 	r
 RSE checks for required authority and member locks 	
 Prompted if either check fails 	
 Member is locked on i5/OS, downloaded and opened in editor 	
 Changes written back to remote member on save 	
 Locks released when editor is closed 	
 Or the RSE connection is disconnected 	
 Editor and parsers 	
 "LPEX Editor" provides basic editing capabilities 	
 Copy, paste, undo, redo, find / replace, etc 	
 Not language specific 	
 "Parsers" provide language specific features 	
 Color tokenizing, prompting, syntax checking, content assist, etc 	
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IBM Software Group WebSphere software
Content Assist
Plemote System Explorer - PATROLL - WebSphere Development Studio flient Advanced Edition for Series File Edit Source Comple Navigate Search Project Run Window Help Image: Search Project Run Help Image: Se
graphic, or ÚCS-2 fields, they are defined as fixed length. Import (TIME-FORMAT{TIME-SEPARATOR}) 004300 C* determines if the program w 004400 C* undate en existing record in the file. 004400 C* undate en existing record in the file. Vastly improved for RPG in 5.1 ! Total and rest indicators. Available for COBOL in 5.1 and ▼
25 Iater oration

Edit Source	e Compile Navigate Search Project Run Window Help		
1 .	🗓 🎋 • O • Q • . 🛷 👐 (+ +) 🐸	🕓 🗵 🖷 🕨 🛆 🕴 💽 📴 💼 🔛 🔡 🔡 Remote Syste	
ORDENTR.RP	GLE SS		
Line 1	Column 1 Replace	Line 13 Column 1 Replace	
		.+. ECLON01Factor1++++++Opcode(E)+Factor2++++	
000100	//	ODOGOO FITEN IF E K Disk	
000200	11	* 000000	
000300	// ROUTINE: ORDENTR	001000 *Input parameter from Web page	
000400		001100 Dpartid # 1	
000500	// This program allows a user to enter	r 001200 * Data structure to specify output str	
000600	// a print request to a batch job vi	1 001300 D partrec E DE	
000700	// handles District 1 and Warehouse		
000800		× 001500	
<) () () () () () () () () () (Three members one	
		split horizontally along	
	DE 57	the bottom and two colit	
Serees a			
Line I	Column I Replace	vertically at the top	
000100	****15 DD 20050428 125247 yantzi	REL-V5.0.1 00	
000200	A*STD CESC		
000400	Artes	DSDST7/24 80 #DS31	
000500	X	REF(*LIBL/CSTMR)	
000600	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	CA12(12 'Cancel')	
000700	A	HELP	
0008000	A CONSTRUCTION OF	ALTHELP	
000900	A R DOMMY	I D LE DOLDE	
-			
		1	

IBM Software Group W	ebSphere software	
 Language Help – at y RPG, Cobol, DDS online references Programming Guides including CL F1 Help Sensitive to where cursor is in the editor Message Help and much more 	August 2015 August 20	io Client Advanced Edition for iSeries Search scope: iseries ISeries programming information WebSphere(R) Develops Reference File Description Specific File description specifications identify each file must have a corresponding file description specifications identify each file must have a corresponding file description specifications. Externally described files have externally using DDS, DSU, IDDU, or SQL con product.) The following limitations apply per program: Only one primary file can be specified. Trequired.
	E 42 File Descrip	<u> Lop of Page Previous Page Next Page</u>
44 IBM System i5 Tools Remote Sy	stem Explorer	© 2004 2007 IBM Corporatio

IBM	Software Group WebSphere software	IB
PEX Edit	or Functions: Preferences	
Preferences		
Workbench Agent Controller Ant Build Order Gomponent Text	ILE RPG Language-specific editor preferences V Automatic syntax checking Enable auto syntax Enable auto	
E-Data - Debug	Autgmatic uppercasing checking uppercasing	
 Help Install/Update Internet 	Genetar previous spectario code (f on C-Specification) Set C-Specification cursor position	
ISeries Projects J2EE Java Ionging	Postor FActor Set free form C-Specification cur	
LPEX Editor Plug-In Development Profiling and Logging	Poston DEITAVIOUI	
RAD Readme Example Remote Systems Communications	Automatic indent Blanks (1-20): Z Automatic closure of control block Style: ENEXX	
- File Cache - Files - Eles - Cache	User defiged tabs User defiged tabs Tab key H: Control Dehaviour	++
Command Executio Command Subsyste Job Subsystems FI-LPEX Editor Parsers		^
- CL - COBOL - DDS - ILE RPG		
₩	Restore Defaults Apply	
Import Export	OK. Cance	rati

IBM Software Group WebSphere software	IBM
Llear Defined Actions	
User Defined Actions	
User-Defined Actions … like PDM!	
-Right-click on iSeries Objects -> Work With	
-User-defined Actions	
-Create, delete or change user-defined actions	
-Scope them so you only see them when appropriate	
-Named Types	
-Greate named types to scope actions against	
and even beyond PDM!	
-Create user actions for libs/objects, members and even jobs and IFS folders and files!	
 Same Substitution variables as PDM 	
-Plus a few extras!	
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IBM Software Grou	ıp WebSphere software	IEM
Multi-file Search Select Search → iSeries from pull-down menu	Search File Search Help Search Search Search string: ENHRS Connection: My Server Target Supports multi-generic names Ibrary: SELABOI File: Data member Image: Data member Columns Data member Columns All columns Between (1) and BO Between(G) and end of line	AVI interface to NDSTRPDM AVI Search > Pugen Search Case sensitive V Case sensitive V New Browse Browse Ders
	Customize	Search Cancel
- -₩		
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	_		
ITEMPROCS.*srvpgm.rpgle			to Toble View
ORDER.*dtag	126	enes Da	
ABC.*msgf			
MSG.*msgf			
CSTMR.*file.pf-dta	Shows records from data	physical file	in the iSeries Data
DSTRCT.*file.pf-dta	Table View		
EVFEVENT.*file.pf-dta			
EVFTEMPF01.*file.pf-src	 Retrieves and displays first few records for performance 		
H.*file.pf-src	 Additional records retrieved as you scroll through table 		
TTEM oby		,	5
ORDENTD.*F Go To	Read-only access		
ORDERS. THE			
ORDLIN.*file	 Desition to record by low 		
PRTORDERP SOPY	 Position to record by key 		
QCLSRC.*file + Move	 Start typing in table ar 	nd dialog box a	ppears where you enter
DODSSRC. T X Delete	search values for key	fields	
OPNLSRC, *fi Show in Table			
QPNLSRCP.* By End String	Participation of the Participation of the Participation of the State	Patrick Patrick	and a Walter Manual Market and Annual A
E apagerere	Denes Table Leve, Idenes Error List, Properties, Idenes dervice	Child Points 1. St Denes D	
D QKPGLESRC. Save	have been WDC/DCMO (TTCM/TTCM)		
QRPGLESRCF Restore	torasbcc:WDSCDEMO/ITEM(ITEM)	1001/05	IDATA
QRPGLESRCF Restore	torasbec:WDSCDEMO/ITEM(ITEM)	IPRICE 93.00	IDATA ENTRY LEVEL
ORPGLESRCF Restore ORPGLESRCF Restore OSQLTEMP1. User Actions	torastic::WDSCDEMO/ITEM(ITEM)	1PRICE 93.00 98.71	IDATA ENTRY LEVEL 4 INCH SIZE
CQRPGLESRCF Save CQRPGLESRCF Restore CQSQLTEMP1. SLTCUSTD.* SLTPARTD.* Properties	torasboc:WDSCDEM0/TEM(TEM) * 10 19446 000007 Rubber_Baby_Bugy_Wheel 000007 Rubber_Baby_Bugy_Wheel 000010 ITSO REBOOK 5524-2152	IPRICE 93.00 98.71 50.00	IDATA ENTRY LEVEL 4 INCH SIZE ACCESSING THE AS/400 WITH JAVA
O QRPGLEXC Save O QRQLERCT Restore O QSQLTEMP1 User Actions SITCUSTD.* STOCK.*file.pf-dta	torasbc::WDSCDEMO/ITEM(ITEM) * 100 104ME 500035 Cross_Country_Sti_Sat 000007 Rubber_Baby_Buggy_Wheel 000010 1150 REBOOK Sig2+2182 000011 1150 REBOOK Sig2+2183	1PRICE 93.00 98.71 50.00 20.87	IDATA ENTRY LEVEL 4 INCH SIZE ACCESSING THE AS/400 WITH JAWA BULDIDIG AS/400 APPLICATIONS WITH JAWA
Gordsubski, Sayes Gordsubski, Sayes Gordsubski, Sayes Gordsubski, Sayes Gordsubski, Sayes Solutions Sufficient Sayes Strucksfile.pf-dta Strucksfile.pf-dta	torsebac: WSCDEM/ITEN(ITEN) ID IVAME 000007 Rubber_Baby_Buggy_Wheat 000001 ITS0 REBOOK 5624-2182 000011 ITS0 REBOOK 5624-2183 000012 Plasts_Gatage_Pal	1PRICE 93.00 98.71 50.00 20.87 22.40	IDATA ENTRY LEVEL 4 DICH SIZE ACCESSING THE AS(400 WITH JAWA BUILDING AS(400 APELICATIONS WITH JAWA 36 GALLON CAPACITY
Gorduzski, Save	torestec: wDsCDEM0/ITEM(TEM) e [®] IID IN/ME Cross_Country_Sk_Set 000009 Rubber_Baby_Buggy_Wheel 000010 ITSO REDBOOK Sic24-2152 000011 ITSO REDBOOK Sic24-2163 000012 Plastc_Serbage_Pal 000013 Dol_ytous_Purnture	IPRICE 93.00 96.71 50.00 20.87 22.40 24.22	IDATA ENTRY LEVEL 4 INCH SIZE ACCESSING THE AS(400 WITH JAWA BULIDING AS(400 APPLICATIONS WITH JAWA 36 GALLON CAPACITY KITCHEN ORLY
Constant Service Service Constant S	ID INAME 200007 Tobs_Country_Sis_Set 200007 Robber_Baby_Bugg; Wheel 000001 TiSo REBOOK Sig24-2182 000001 TiSo REBOOK Sig24-2183 000001 Platts_Gatsage_Pal 0000013 Del_house_Purnhare 000014 Plane_Rests_Parts	IPRICE 93.00 99.71 50.00 20.87 22.40 24.22 10.28	DATA ENTRY LEVEL 4 INCH SIZE ACCESSING THE AS(400 WITH JAWA BUILDING AS(400 APELCATIONS WITH JAWA DS GALLON CAPACITY KITCHEN ORLY SWERAL COLORS AVAILABLE
Constant And Annual Annua	torablec: WDSCDEM/UTEM/UTEM/ a) ID IVAHE Cross_Country_Sh_Set 000003 Rubber_Baby_Buggr, Wheel 000010 ITSO REBOOK Si24-2152 000011 ITSO REBOOK Si24-2153 000012 Plastic_Garbage_Pal 000013 Dal_rouse_Furniture 000014 Plan_Poolets_Pants 000014 S2_trut_coler_Vis	1PRICE 93.00 96.71 50.00 22.40 24.22 10.28 63.75	IDATA EVITRY LEVEL 4 INCH SIZE BULLDING ASPLECATIONS WITH JAWA BULLDING ASPLECATIONS WITH JAWA 36 GALLON CAPACITY STOREN CALLON CAPACITY STOREAL COLORS AVAILABLE BULLT-IN VCR
Constant Same	torsebac: WSSCDEM/NITEN(ITEN) 2 TID TWAME 000000 Cross_Country_Sis_Set 000001 Triso REBOOK Sig2+2182 000001 Triso REBOOK Sig2+2183 000001 Triso REBOOK Sig2+2183 000001 Triso REBOOK Sig2+2183 000013 Dal_Focus_Furthure 000015 25_trind_Coler_IVs 000015 25_trind_Coler_IVs 000016 Multi-System Paper	93.00 99.71 50.00 20.87 22.40 24.62 10.28 63.75 71.57	DATA EVITRY LEVEL 4 INCH SIZE ACCESSING THE AS(400 WITH JAWA ACCESSING APPLICATIONS WITH JAWA So GALLON CAPARCITY KITCHEN ONLY SEVERAL COLORS AVAILABLE BUILT-JAWCR EVILTAN WCR STANDARD LIS SIZE
Constants Constants	ID IVAME 000017 Constr., Sin, Set 000007 Rubber_Baby_Bugg, Wheel 000011 TISO REBOOK Siz2+2182 000012 Plastic, Grabage, Pal 000013 Doll, Journe, Purthure 000015 S2, Jond, Color, TVs 000016 Math.System Paper 000016 Math.System Paper 000016 Math.System, Paper	PRICE 93.00 98.71 50.00 20.87 22.40 24.22 10.28 63.75 71.57 39.83	IDATA EVITRY LEVEL 4 UICH SIZE ACCESSING THE AS(400 WITH JAWA BULDING AS(400 WITH JAWA BULDING AS(400 APPLICATIONS WITH JAWA SIG GRALLON CAPACITY SEVERAL COLORS AVAILABLE BULT-AN VCR STANDARD US SIZE FOR BEGINNERS
Constant Street St	torsebac: WDSCDEM/UTEN/UTEN/UTEN/UTEN/UTEN/UTEN/UTEN/UTEN	PRICE 93.00 98.71 50.00 20.87 22.40 24.22 10.23 6.3.75 71.57 9.93 31.241	IDATA EVITRY LEVEL 4 INCH SIZE ACCESSING THE AS/600 WITH SWA BI GALON CAPACITY KITCHEN OALY SWERAL COORTS AVAILABLE BUILT-IN VCR SWERAL COORTS AVAILABLE BUILT-IN VCR STARCHARD US SIZE FOR BEGINNERS CHEAP MOOEL
Constant Service Service Registere Constant Service Registere Satcasts Provide Registere Regittere Registere.	Ion-school: WOSCDEM/NITEN/(TEN/) ID IVAME 200001 Oross_Country_Sis_Sch 000001 TISO REBOOK Sig24-2182 000011 TISO REBOOK Sig24-2183 000013 Dell, Plause_Furniture 000015 22, Jruh_Color_TVS 000016 25, Jruh_Color_TVS 000017 Multi-System, Paper 000018 Rado_Controlled_Flame 000019 Rado_Controlled_Flame 000019 Rado_Controlled_Flame 000019 Sauere Flame 000019 Sauere Flame	PRICE 93.00 96.71 50.00 24.82 24.02 63.75 71.57 39.83 12.44 50.44 90.94	DATA ENTRY LEVEL 4 INCH SIZE ACCESSING THE AS(400 WITH JAWA BUILDING AS(400 APELCATIONS WITH JAWA DI GALLON CAPACITY KITCHEN ORLY SWERAL COLORS AVAILABLE BUILT-IN VCR SWERAL COLORS AVAILABLE BUILT-IN VCR STANDARD LUS SIZE FOR BEGINNERS CHEAP MODEL BETTER MODEL BETTER MODEL
New in 7.0!	Bit Display Conc, Country, Sil, Set 000001 Tisone, Country, Sil, Set 000011 Tisone, Report, Signal, Set 000012 Plastic, Garbage, Pal 000013 Doll, Jouan, Purature 000014 Plastic, Garbage, Pal 000015 Sil, Jour, Colen, Tis 000016 Maits, System, Paper 000018 Rado, Controlled, Flame 0000103 Square, Plastic, Calendar	PRICE 93.00 98.71 95.00 20.87 22.40 24.22 10.23 63.75 71.57 39.93 112.41 55.44 49.04	IDATA ENTRY LEVEL 4 INCH SIZE ACCESSING THE AS(400 WITH JAWA BULDING AS/400 APPLICATIONS WITH JAWA BULDING AS/400 APPLICATIONS WITH JAWA SIG GALLON CARACITY STANDARD US SIZE CHEAP MODEL BULT-TN VCC CHEAP MODEL BITTEN MODEL FIVE YEAR CALENDER
Constant Segments Constant Segments Constant Segments Constant Segments Constant Segments Stroket Segments	Ionscher: WOSCDEM/(ITEN(ITEN)) 2100 INAME 2000007 Rubbing: Bary, Burgy, Wheel 2000017 Cross_Country_Sis_Set 2000017 Cross_Country_Sis_Set 2000018 Rubbing: Bary, Burgy, Wheel 2000011 ITSO REBOON Sist-2183 2000012 Plastle_Garbang: Pall 2000013 Dall / Proces_Furniture 2000014 Plant-Qodies: Junits 2000015 Plant-Qodies: Junits 2000016 Reads_Controlled: Flore 2000017 Reads_Controlled: Flore 2000018 Reads_Controlled: Flore 2000020 Square, Florito_Colendar	1991/CE 93.00 96.71 90.07 22.40 24.22 10.23 63.75 71.57 39.53 12.41 99.54 49.04	IDATA EVITRY LEVEL 4 INCH SIZE ACCESSING THE AS/400 WITH JAWA BLILDING AS/400 APPLICATIONS WITH JAWA BLILDING AS/400 APPLICATIONS WITH JAWA SIGERAL COLORS AVAILABLE BLILT-IN-VICE TITADADAD US SIZE FOR BEGINNERS CHEAP MODEL EFTER MODEL FIVE YEAR CALENDER

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 IBM System i[™] Developer Roadmap 	
Packaging and Install	
 Remote System Explorer (RSE) Getting started Accessing libraries, objects, and members Remote Systems LPEX Editor Other cool (and useful) features 	
Integrated Debugger	
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Program Execution
Step Into
 Debug the next call level
Step Over
 Run the next call level and stop at the next statement
Step Return (for ILE on V5R3 or higher)
 Run until you are back in the previous call level and stop at the next statement
Resume
 Run until an event is encountered
Run To Location
 Run and stop at the current cursor position or until an event is encountered
Suspend
 Halt program at point of execution
 Terminate
 End the debug session (but not the job being debugged)
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Setting Breakpoints Ways to set a Line Breakpoint: Double click in prefix area	
 In Editor prefix area, select Add Breakpoint from pop-up menu In Editor, select Add Breakpoint from pop-up menu In Breakpoints view, select Add Breakpoint >Line from poup up menu. 	-qu
Ways to set a Watch Breakpoint:	
 Double click variable and In Editor, select Add Watch Breakpoint from pop-up menu In Breakpoints view, select Add Breakpoint > Watch from pop-up menu. 	r
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	Corporation

ІВМ	Software Group WebSphere software	IBM
Condition	A a specific source line t a specific sourc	et: - Frequency - Value to start - Value to stop - Breaks to skip xpression: Condition must e true for break to happen
2.Det	Next > Expression: BCOUNT > 98 : < Book front > Resth Cancel System 15 Tools Remote System Explorer	© 2004 2007 IBM Corporation

IBM Software Group WebSphere software	IEM
Summary	
 IBM System iTM Developer Roadmap A starting place for i5/OS application modernization 	
 Remote System Explorer (RSE) 	
 Much more than just a replacement for SEU / PDM 	
 Modern application development tools for i5/OS developers First stop in the readman 	
Lots of resources available to get you started:	
 Webcasts and System i magazines 	
 WDSC website 	
 www.ibm.com/software/awdtools/wdt400/ 	
 midrange.com mailing list 	
 http://lists.midrange.com/mailman/listinfo/wdsci-l 	
- IBM Learning Services	
 COMMON and System i Technical Conferences 	
 User group meetings 	
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