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IBM® TXSeries® for Multiplatforms V6

Web administration tool



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This presentation covers the Web administrative tool for TXSeries version 6.

Introduction - Web administration interface

- Provides an interface to perform routine administration activities on TXSeries installations
- Developed in Java™; exploits the potential of J2EE technologies
- Deployed in Light Weight Infrastructure
- Interface derived from Web Sphere Application Developer administration tool
- Supports Internet Explorer and Firefox browsers



TXSeries for Multiplatform is an entry level non-J2EE transaction server. It offers base level CICS® programming interfaces and allows to embed CICS APIs in programming languages like COBOL, C, C++, PL/1 and Java to create simple solutions for business-critical transaction processing. It has extensive integration support for many enterprise information systems, including IBM CICS Transaction Server, IMS, DB2®, WebSphere® MQ, and WebSphere Application Server.

The Web administration tool is a server side application in Java and deployed in Light Weight Infrastructure, an IBM framework for deploying J2EE compliant applications..

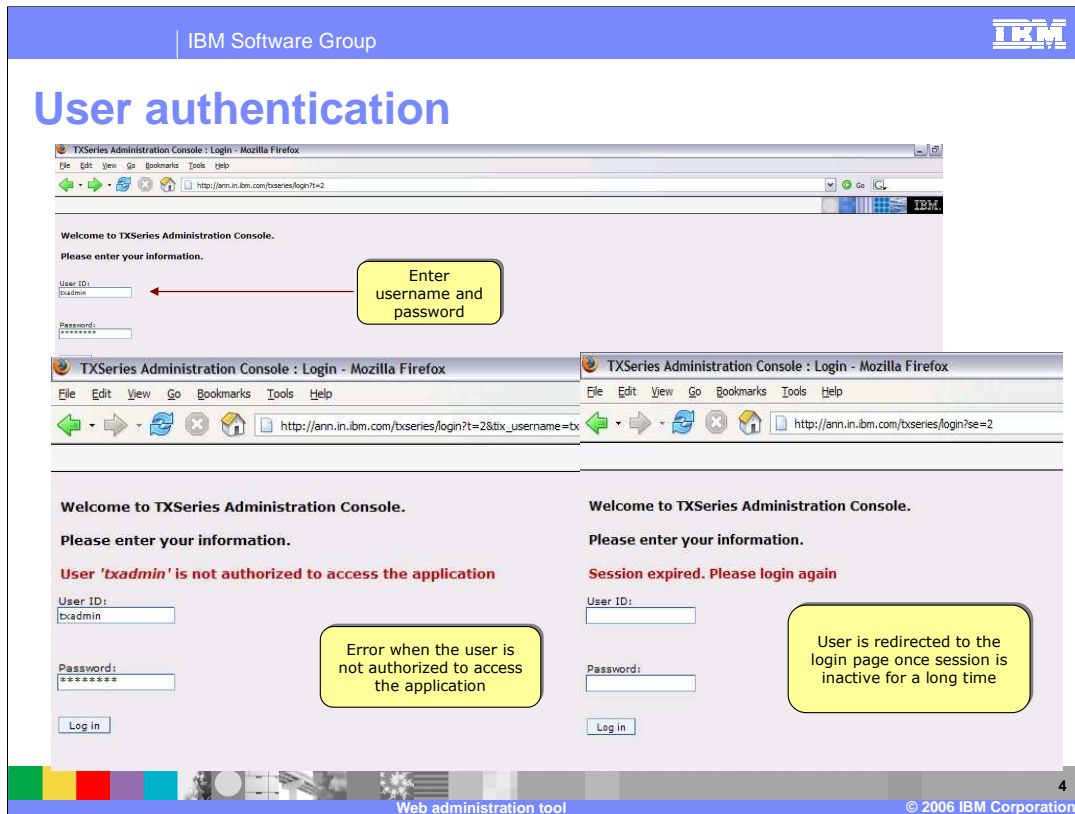
The TXSeries administrative console GUI is modeled on the WebSphere Administrative console. Some inputs have been taken from the Redbook on CICSplex SM web interface for mainframes and it follows accessibility guidelines.

Web administration tool benefits

- A common interface for all supported platforms (AIX®, Windows®, HP and Solaris)
- Remote administration
- Addresses the complexity of configuration and administration of TXSeries installations
- Easy identification of errors and warnings
- On-line help for attributes and error messages



Being a Java based application, the tool has a common code base for development , and consistent appearance across the supported platforms. It uses J2EE technologies as the backbone, allowing remote administration. The interface makes it easier to notice errors and warnings, and an on-line help system is available for expanding upon those messages.



To access the Web Administrative tool, type the URL <http://hostname/txseries/admin>, where hostname is the name or IP address of the system where TXSeries for Multiplatform V6.1 is installed. Once you access the URL, it will prompt for a username and password. Any user on the system where TXSeries is installed that belongs to the 'cics' group can login to the Web Administrative Tool by providing a valid username and password.

Logged-in user

Links to TXSeries IBM sites

Frame 1. Banner and general information/links

Summary of servers / regions and their running status

	Total	Starting	Recovering	Started	Stopped
Regions	5	--	--	2	3
SFS Servers	2	--	--	--	--
PPC Gateway Servers	1	--	--	--	1

Product details along with interim fix details

Language selection

Frame 2. All the servers, namely, regions, SFS servers and PPC gateways will be listed here in a tree structure. User navigates to the necessary sections from here.

Link to TXseries online documentation

Frame 3. Basic info about the servers, resource and its current running status will be shown here. This frame is the work area where you will perform other server and resource related actions as well.

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The browser is divided into three frames, as shown in this screen capture. Servers are listed on the left; general information on the right. At the bottom is status information.

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Regions

TXSeries Administration Console - Mozilla Firefox

Welcome badmin | Logout | Support | Help

ann.in.ibm.com

Regions

- All Regions
- HEADOFF
- HRMSAP
- PURHRT
- HQRTREG
- Region Properties
- Communication
- File
- Gateway
- Journal
- Listener
- Monitoring
- Object
- Product
- Program
- Temporary Storage
- Terminal
- Transaction
- Transient Data Queue
- User
- Logs
 - Console Logs
- BRCHORA
- SFS Servers
 - All SFS servers
 - DB2
 - ann
 - Server Properties
- PPC Gateway Servers
 - All PPC Gateways

Regions, servers and other resource links

Select all

Start/stop/create/destroy regions

Hostname

Select	Name	Resource description	Type of file system	Startup groups	Region Pool Storage Size (Bytes)	Status
<input type="checkbox"/>	HEADOFF	Region Definition	SFS		2097152 (2 MB)	✖
<input type="checkbox"/>	HRMSAP	Region Definition	SFS		2097152 (2 MB)	✖
<input type="checkbox"/>	PURHRT	Region Definition	SFS		2097152 (2 MB)	✖
<input type="checkbox"/>	HQRTREG	Region Definition	SFS		2097152 (2 MB)	✔
<input type="checkbox"/>	BRCHORA	Region Definition	SFS		2097152 (2 MB)	✔
Total						5

Total regions

List of regions

Select one or more regions to start/stop or destroy

Current running status of regions

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Clicking on the navigation panels labeled Regions, SFS Servers, or PPC Gateways Servers will display the respective links on the right side across from the work area frame.

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Region > Destroy as an example

The screenshot displays the TXSeries Administration Console interface. The top navigation bar includes 'IBM Software Group' and the 'IBM' logo. The main title is 'Region > Destroy as an example'. The interface is split into two main sections.

The upper section shows the 'All Regions' management page. A table lists regions: PURHQRT, HQRTRREG, HQRTRREG, HQRTRREG, and HQRTRREG. A 'Destroy' button is visible. A confirmation dialog box is overlaid, titled 'Are you sure you want to destroy the following region(s) ?'. It contains a table with columns 'Name' and 'Type of file system'. The entry is 'PURHQRT' with 'SFS' as the type. There are checkboxes for 'Force' and 'Delete file server configuration'. A 'Total' row shows '1'. A 'Yes' button is highlighted with a yellow callout box labeled 'Destroy region confirmation window'.

The lower section shows the 'Region -> Destroy' execution log. The status is 'Region -> Destroy -> Completed'. The log contains several messages:

- ERZ059004I/0107 Starting RPC daemon.
- ERZ059002I/0101 RPC daemon is already running.
- ERZ096127I/0257 Processing a destroy region command
- ERZ096156I/0257 Destroying region 'PURHQRT'
- ERZ096111I/0224 Processing a start sfs_server command
- ERZ096141I/0224 Starting SFS server './:cics/sfs/ann'
- ERZ096105E/0226 The SFS server './:cics/sfs/ann' already exists but appears incorrect (highlighted in red)
- ERZ046119I/0514 Deleting subsystem definition for the region 'PURHQRT'
- ERZ010072I/0702 Deleting subsystem and notify method 'cics.PURHQRT'
- ERZ046120I/0515 Deleting files and directories for the region 'PURHQRT'
- ERZ096128I/0263 The region 'PURHQRT' was destroyed successfully
- ERZ096002I/0003 cicscp command completed successfully

A yellow callout box labeled 'Result of destroy command' points to the completion of the destroy process. Another yellow callout box labeled 'Error messages are highlighted with a different color' points to the red error message.

At the bottom, the text 'Web administration tool' and '© 2006 IBM Corporation' is visible.

For actions such as destroy, a confirmation pop-up window appears. The result of the destroy command is shown intermittently by automatically refreshing the page. If there is an error in the output, it is displayed with a different color and icon, so that you can easily identify the message.

The screenshot displays the IBM TXSeries Administration Console interface. At the top, it shows the IBM Software Group logo and the title 'TXSeries resources'. The main content area is divided into two sections: 'Transactions' and 'CICS Supplied Transactions'. A table lists various transactions with columns for Name, Resource description, Group to which resource belongs, First program name, and Conversational timeout value (mins). A confirmation dialog box is overlaid on the table, asking 'Are you sure you want to delete the following resource definition(s)?' and listing the selected resources: QEMP and UDBT. The dialog includes radio buttons for 'Permanent', 'Runtime', and 'Both' deletion types, and 'Yes'/'No' buttons.

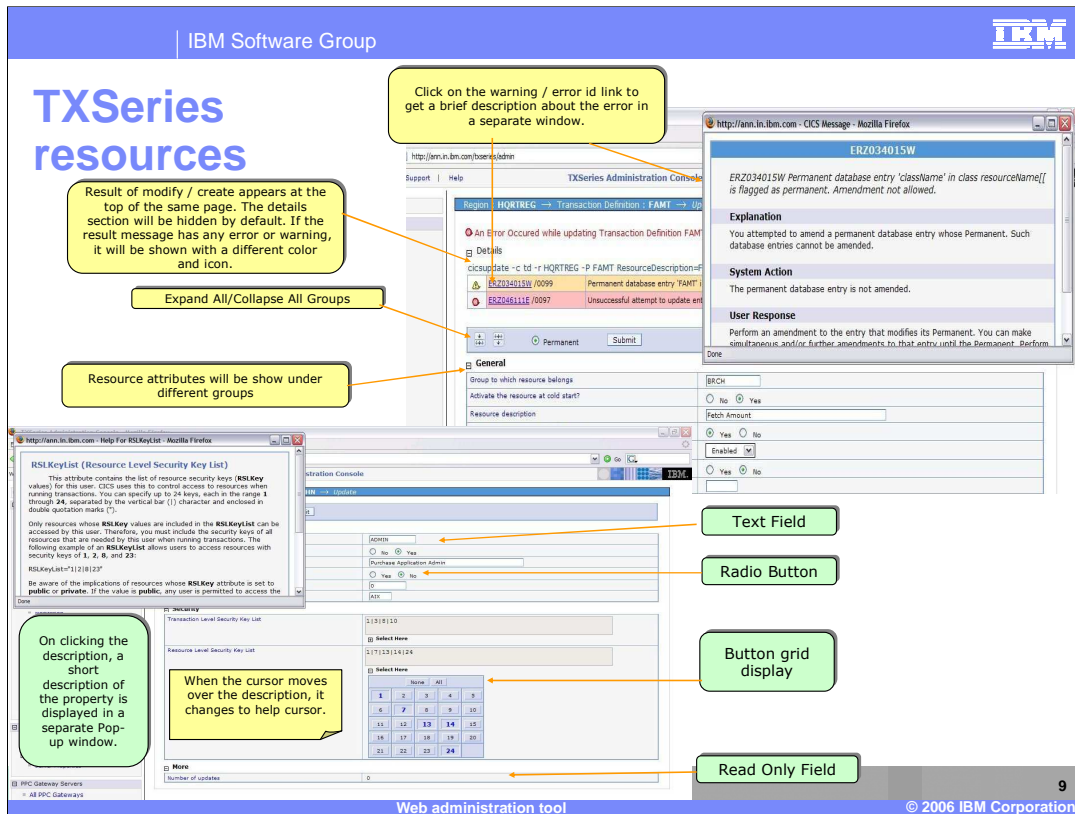
Annotations in the image provide the following information:

- Transactions are listed under two categories, namely user defined transactions and CICS Supplied transaction.
- Sort the list based on the attribute value
- Click on the transaction name to modify the transaction attributes. You can modify only one transaction at a time.
- Clicking the **Transaction** Link under the respective region on the left panel, displays the list of transactions in that region.
- Create a new resource
- Delete confirmation window

Resources are divided into two categories; (1) resources created by you, and (2) Resources supplied with the TXSeries product.

For critical actions like deleting a resource, a confirmation window is shown. Delete can be performed either for a single resource or for a group of resources. Most commonly used attributes are shown in the other columns in the list, so that you get a quick view of the attributes. Attributes which are 'Boolean' in nature are shown with the help of images.

A sort image is provided at the top of each column and by default the columns are not sorted. The sort image toggles for each click. The sort direction can be identified either by the shape of the image, or by the tool tip which appears when you move the mouse over the image.



The attributes for any resource is displayed under different groups. Each group in the display can be hidden if you do not want to see it displayed.

Each attribute is displayed as

1. Read only
2. Text field
3. Text area
4. Radio button
5. Drop down list, or
6. Custom display

There are 3 custom display styles. One of these, a button grid display, is shown in this slide

The result of an action is shown at the top of the page, along with the CICS command which was run behind the scene.

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Console logs

Click on the console logs link on the navigation frame, under the respective region, to get the list of console files under that region.

Search for a string

You can view errors, information, warnings or non-ERZ messages separately. Or you can view all the contents at a time. By default, it shows the last 50 lines of the current console file.

Errors, warnings and non-ERZ messages are shown with different colors and icons, for easy identification

Alternate rows will be of different colors

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Message ID	Date	Time-Nanos	Process ID/Thread ID	Message	Action
ER201019010020	09/21/06	11:06:00.656989397	28006/0001	CICS Release Number 6.1.0.0 Revision Level TXSer...	Information
ER201013810362	09/21/06	11:06:00.697477882	28006/0001	CICS region 'HQRTRREG' is being started with local...	Warnings
ER2027408117442	09/21/06	11:06:00.712519304	28006/0001	Starting region with attribute override 'StartType=au...	Non-ERZ Messages
ER2074089W/7429	09/21/06	11:06:00.715064200	28006/0001	No runtime recovery image for the region exists, cold start assumed	
ER2010131W/0411	09/21/06	11:06:00.715498408	28006/0001	Cold start forced as previous cold start did not complete	
ER201011710150	09/21/06	11:06:00.715948901	28006/0001	CICS is performing a cold start	
ER204040101017	09/21/06	11:06:00.727380105	28006/0001	Region Pool initialized at address: 40000000	
ER204804310108	09/21/06	11:06:00.727784936	28006/0001	Task: Shared Pool initialized at address: b0000000	
ER205202811710	09/21/06	11:06:00.743831891	28006/0001	Dumping initialized with these options set to YES 'CDump ABDump'.	
ER204902910808	09/21/06	11:06:00.744223735	28006/0001	Trace initialization has begun	
ER201008010452	09/21/06	11:06:01.236077709	28006/0001	CICS will use Authentication/Service: CICS	
ER205001810019	09/21/06	11:06:01.264340002	28006/0001	The Monitoring Transient Data (TD) queue has not been defined.	
ER2024114W/0335	09/21/06	11:06:01.264850045	28006/0001	No user journals opened	
ER201608010334	09/21/06	11:06:01.527695108	28006/0001	SFS loaded as file system	
ER204300610012	09/21/06	11:06:01.359089866	28006/0001	Communications switch layer successfully initialized.	
ER202200101003	09/21/06	11:06:01.600089110	28006/0001	Transient data definitions validated	
ER205300210102	09/21/06	11:06:01.610271826	28006/0001	CICS statistics initialization is complete. Interval recording is active, for an interval of 3 hours, 0 minutes and 0 seconds. The end-of-day time is set to 0 hours, 0 minutes and 0 seconds.	
ER201016710454	09/21/06	11:06:01.616050505	28006/0001	Region 'HQRTRREG' has been configured to support a Structured File Server(SFS).	
ER2024083U/0207	09/21/06	11:06:02.106362559	24010/0001	Log daemon is waiting for access to master log file	
ER20240810/0267	09/21/06	11:06:02.349992455	24648/0001	Application Manager has finished with master log file	
ER20240810/0315	09/21/06	11:06:02.350794589	24010/0001	CICS log daemon ready	
ER2010141U/0373	09/21/06	11:06:02.359056799	34648/0001	Application manager now starting MinServer servers	
ER2010144U/0375	09/21/06	11:06:02.598859632	34920/0001	Application server 101 started	
ER2010144U/0375	09/21/06	11:06:02.658886405	27310/0001	Application server 102 started	
ER2010137U/0368	09/21/06	11:06:02.711967991	34920/0001	The CICS initialization transaction has started	
ER2020152U/0163	09/21/06	11:06:03.214555276	34920/0001	Opening files ...	
ER20220010/0001	09/21/06	11:06:03.245459873	34920/0001	Unsuccessful open of file: 'DB7/DB_ACCOUNT_TAB_index:DB_ACCOUNT_PK'.SFS code - 199765971.ENC-SFS-0051: Unknown file system name.	
ER2021004E/0042	09/21/06	11:06:03.246244271	34920/0001	Unable to open file 'ACCOUNT'	
ER2021053U/0164	09/21/06	11:06:03.246244271	34920/0001	... file opening completed	
ER2022001U/1233	09/21/06	11:06:03.246533523	34920/0001	Processing transient data queues ...	
ER2022113U/1234	09/21/06	11:06:03.401059685	34920/0001	Transient Data queues processed	
ER2023017U/0733	09/21/06	11:06:03.401499484	34920/0001	Processing temporary storage queues ...	

Click on the console logs link on the left side navigation frame to view the list of console files in that region. The last created modified log file will always be at the top.

Click on any line of the console file to view its contents. By default it shows the last 50 lines of the console file.

Language support examples (Japanese)

メッセージ ID	日付	時間:ナノ	プロセス ID / スレッド ID	メッセージ
ERZ0490291/0805	06/09/21	18:17:28.209746718	26832/0001	トレース初期設定が完了しています。
ERZ0490301/0806	06/09/21	18:17:28.210264888	26832/0001	トレースパラメーターが自動始動用に復元されました。
ERZ0490111/0815	06/09/21	18:17:28.210998468	26832/0001	トレースパラメーター 'TraceDirectorySystem' は '/var/cics_regions/HQRTREG/dumps/dir1' に設定済みです。
ERZ0490111/0817	06/09/21	18:17:28.210998345	26832/0001	トレースパラメーター 'TraceDirectoryUser' は '/tmp' に設定済みです。
ERZ0490111/0818	06/09/21	18:17:28.211269505	26832/0001	トレースパラメーター 'TraceFlagAux' は 'OFF' に設定済みです。
ERZ0490111/0825	06/09/21	18:17:28.211540399	26832/0001	トレースパラメーター 'TraceFlagBuffer' は 'ON' に設定済みです。
ERZ0490111/0827	06/09/21	18:17:28.211810696	26832/0001	トレースパラメーター 'TraceFlagExec' は 'OFF' に設定済みです。
ERZ0490111/0830	06/09/21	18:17:28.212080601	26832/0001	トレースパラメーター 'TraceFlagExternal' は 'OFF' に設定済みです。
ERZ0490111/0833	06/09/21	18:17:28.212351982	26832/0001	トレースパラメーター 'TraceFlagMaster' は 'OFF' に設定済みです。
ERZ0490111/0836	06/09/21	18:17:28.212645149	26832/0001	トレースパラメーター 'TraceFlagSystem' は 'OFF' に設定済みです。
ERZ0490111/0839	06/09/21	18:17:28.213014395	26832/0001	トレースパラメーター 'TraceFlagUser' は 'OFF' に設定済みです。
ERZ0490111/0842	06/09/21	18:17:28.213321824	26832/0001	トレースパラメーター 'TraceMaxSizeAux' は '0' に設定済みです。
ERZ0490111/0843	06/09/21	18:17:28.213600121	26832/0001	トレースパラメーター 'TraceMaxSizeBuffer' は '131072' に設定済みです。
ERZ0490111/0845	06/09/21	18:17:28.213872732	26832/0001	トレースパラメーター 'TraceSystemSpec' は 'all=0' に設定済みです。
ERZ0490331/0811	06/09/21	18:17:28.230038349	26832/0001	トレース初期設定が完了しています。
ERZ0100041/0452	06/09/21	18:17:28.328375128	26832/0001	CICS は AuthenticationService: CICS を使用します。
ERZ0500161/0019	06/09/21	18:17:28.334481072	26832/0001	モニター中の一時データ(TD)待ち行列は定義されていません。
ERZ024114W/0335	06/09/21	18:17:28.334993131	26832/0001	ユーザージャーナルがオープンされていません。
ERZ0300531/1507	06/09/21	18:17:28.360446466	26832/0001	CICS ショートコード 'EUCJP' を持つ 'IBM-eucJP' のデフォルトローカルコードページを使用します。
ERZ0430061/0012	06/09/21	18:17:28.360793641	26832/0001	通信スイッチ層の初期設定が正常に行われました。
ERZ0220021/0083	06/09/21	18:17:28.392439730	26832/0001	一時データ定義を正常に格納しました。
ERZ0530021/0102	06/09/21	18:17:28.393281150	26832/0001	CICS統計初期設定が完了しました。インターバル期間は3時間、0分、0秒の間隔で活動状態です。1日の終わりの時刻は0時、0分、0秒に設定されます。
ERZ0101671/0454	06/09/21	18:17:28.399129854	26832/0001	領域 'HQRTREG' は、構造化ファイルサーバー (SFS) に対応できるように構成されました。
ERZ025001E/0081	06/09/21	18:17:29.710272046	23402/0001	ファイル: 'DB2/DB_ACCOUNT_TAB'、表: 'DB_ACCOUNT_PK' のオープンに失敗しました。原因: 'DB2/DB_ACCOUNT_TAB'、表: 'DB_ACCOUNT_PK' のオープンに失敗しました。

This slide and the next have been added to provide an illustration of language support. These examples are for the Japanese locale.

Language support examples (Japanese)

The screenshot displays the TXSeries Web Administration GUI in Japanese. The main window shows the configuration for 'HQRTREG'. A help window titled 'InvocationMode (トランザクションが START できるコンテキスト)' is open, providing detailed information in Japanese. The help window includes a table of start methods:

開始する権限	開始方法
<input checked="" type="checkbox"/> 権限なし	<input checked="" type="checkbox"/> ユーザー開始
<input checked="" type="checkbox"/> 出力端末	<input checked="" type="checkbox"/> AT1 開始
<input checked="" type="checkbox"/> 入力または出力端末	<input checked="" type="checkbox"/> 内部の AT1 開始
<input checked="" type="checkbox"/> 通信リンク	<input checked="" type="checkbox"/> トリガーされた開始
<input type="checkbox"/> 任意の権限	<input type="checkbox"/> 任意の開始

At the bottom of the screenshot, the text 'Web administration tool' and '© 2006 IBM Corporation' are visible.

Resource descriptions, labels and on-line help are displayed in the language for the locale.

Summary

- Web Administration Interface for *TXSeries For Multiplatform*



In summary, this presentation has covered the Web administrative interface used to manage your TXSeries environment.

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