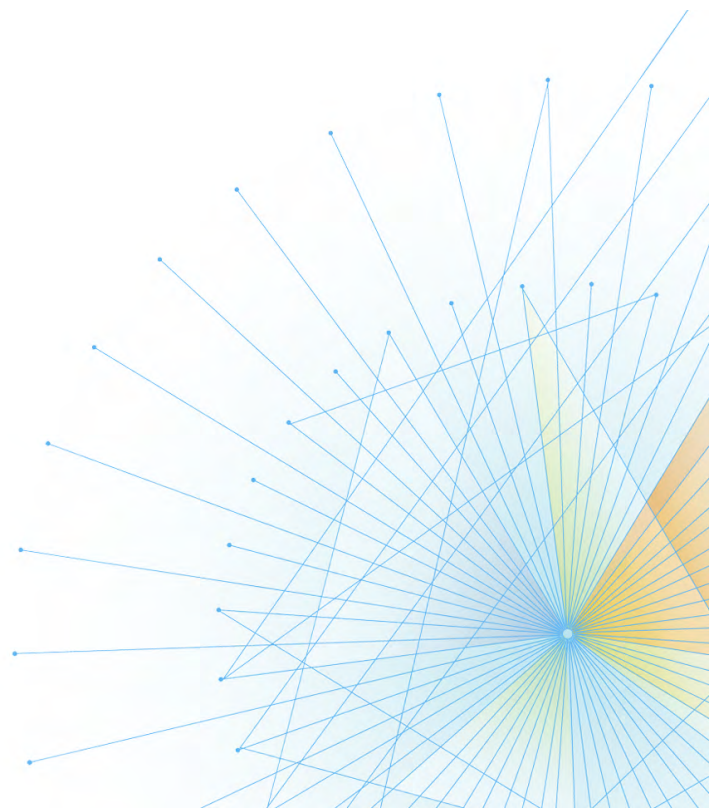




The Mainframe Software Partner For The Next 50 Years

ThruPut Manager User Control (UCS) System Programming Guide

Release 18.02



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Introduction

Summary of Changes

V1802-7118 <i>(April 2019)</i>	<ul style="list-style-type: none">• No changes
V1802-7117 <i>(January 2019)</i>	<ul style="list-style-type: none">• No changes
V1802-7116 <i>(October 2018)</i>	<ul style="list-style-type: none">• No changes
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V1802-7110 <i>(July 2017)</i>	<ul style="list-style-type: none">• Rebranding of MVS Solutions to Compuware. This includes update of cover style, copyright, and changing version release to 18.02.
V7R1-7109 <i>(April 2017)</i>	<ul style="list-style-type: none">• No changes
V7R1-7107 <i>(May 2016)</i>	<ul style="list-style-type: none">• No changes
V7R1-7106 <i>(November 2015)</i>	<ul style="list-style-type: none">• No changes
V7R1-7104 <i>(July 2015)</i>	<ul style="list-style-type: none">• No changes
V7R1-7101 <i>(July 2014)</i>	<ul style="list-style-type: none">• This is a base manual for ThruPut Manager Version 7 Release 1.0.

About This Manual

This manual provides information for systems programmers involved in planning and customizing the User Control Services of ThruPut Manager.

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Chapter 1

The UCS Functions

This chapter introduces the User Control Services features of User Control Services.

User Control Services (UCS) Component

User Control Services (UCS) is a Component of ThruPut Manager that provides functions to grant users independence from the need to make requests to Operations staff.

Functions of UCS

UCS provides the following additional functions:

- Dependent Job Control
- Job Timing Services
- User Hold Services

Dependent Job Control (DJC)

DJC allows your users to control the order of execution of jobs that depend on the completion of other jobs. They can use JECL to organize jobs that depend on each other into DJC Groups, and control the order of execution of jobs within a DJC Group. A DJC dialog under ISPF allows users to display and modify DJC Groups, DJC Events, and jobs in DJC Groups.

Job Timing Services (JTS)

JTS provides a way for your users to control when a job is made available for JES2 job selection. A simple JECL statement provides a way for them to specify the “hold until” date and time at job submission. A JTS dialog under ISPF lets users display their JTS jobs, and if necessary remove the hold. Users can also use the dialog to apply a JTS hold to jobs they have already submitted.

User Hold Services (UHS)

UHS is an extension of ThruPut Manager Multi-hold Services (MHS). To use UHS, users include a JECL statement to request that a job be held at job submission. A major benefit of UHS is the support allowing users to add notes when they apply a hold. To release jobs that they have held using UHS, your users employ the UHS dialog under ISPF. They can also use this dialog as an alternate way to apply a UHS hold to jobs that are awaiting execution.

Chapter 2

User Control Services (UCS) Function

This chapter describes the planning and implementation considerations for UCS.

Planning and Installation Considerations

UCS is intended to provide controls directly to your users with a minimum of datacenter involvement, therefore implementation considerations are minimal.

Security Requirements

UCS depends on your installation's security facility (e.g. RACF, ACF, or Top Secret) to determine whether a user can control a specific job. ThruPut Manager simply makes a System Authorization Facility (SAF) call to determine the user's authority. This call is modeled on and performs identically to the SAF calls made by SDSF. You must define the resources used to make the SAF calls.

Checking for access to the job

The call used to check for access to the job:

```
AUTHORITY(ALTER)
CLASS(JESSPOOL)
RESOURCE($$TM.node.owner.jobname.jobid)
```

node

Is the current node name.

owner

Is the userid of the job's submitter, unless overridden by the USER keyword from the JOB statement.

jobname

Is the name of the current job.

jobid

Is the JES2 job identifier for the current job.



If the owner of the job is the same as the current userid, this SAF call is bypassed.

Checking for HOLD authority

This call is used to check for authority to apply a hold to the job:

```
AUTHORITY(UPDATE)
CLASS(OPERCMDS)
RESOURCE($$TM.jesx.MODIFYHOLD.BAT)
```

jesx

Is the name of the JES2 subsystem.

Checking for RELEASE authority

This call is used to check for authority to release the job:

```
AUTHORITY(UPDATE)
CLASS(OPERCMDS)
RESOURCE($$TM.jesx.MODIFYRELEASE.BAT)
```

jesx

Is the name of the JES2 subsystem.

JECL for UCS

Requests for UCS services can be initiated through ThruPut Manager JECL statements that are inserted by your users. For a full description and syntax of these statements, refer to the *UCS User Guide* or *JECL Reference Guide*.

JECL Statements for UCS	
<i>Refer to JECL Reference Guide</i>	
JECL Statements	Purpose
<code>/*DJC ANDIF</code>	Specifies additional conditions that must be satisfied for a RUNIF or FLUSHIF statement.
<code>/*DJC CONDIPT</code>	Specifies the condition or conditions that must be satisfied before this job is released by DJC.
<code>/*DJC FLUSHIF</code>	Defines dependencies that the job has on other jobs or events in the DJC Group that will cause the job to be flushed.
<code>/*DJC GROUP</code>	Associates a job with a DJC Group.
<code>/*DJC MESSAGE</code>	Allows jobs to describe a system or application message that is to trigger the signal of an event or events.
<code>/*DJC RUNIF</code>	Defines dependencies that the job has on other jobs or events in the DJC Group that will allow the job to run.
<code>/*DJC SIGNAL</code>	Signals a DJC event.
<code>/*JTS HOLD_ UNTIL</code>	Allows job submitters to apply a JTS hold, and describes when the hold is to be removed.
<code>/*MHS_USER HOLD</code>	Allows a job submitter to request that a ThruPut Manager user hold be applied to the job.

JAL for UCS

Several JAL Descriptors are provided to support UCS. These are described in the *JAL Reference Guide* and *UCS User Guide*.

JAL Descriptors for UCS		
Refer to <i>JECL Reference Guide</i>		
Descriptor	Type	Purpose
\$DJC_CLOSE	Logic	Indicates whether the DJC GROUP JECL statement includes the CLOSE keyword.
\$DJC_CLOSE_TIME	Range	Allows you to determine the value specified for the CLOSE_TIME keyword on the DJC GROUP JECL statement.
\$DJC_GROUP	Char	Allows you to determine the DJC Group name specified on the DJC GROUP JECL statement.
\$DJC_HISTORY_COUNT	Range	Allows you to determine the value specified for the HISTORY_COUNT keyword on the DJC GROUP JECL statement.
\$DJC_HISTORY_DAYS	Range	Allows you to determine the value specified for the HISTORY_DAYS keyword on the DJC GROUP JECL statement.
\$DJC_HOLD	Logic	Indicates whether the DJC GROUP JECL state- ment includes the HOLD keyword.
\$JTS_DATE	Range	Allows you to check the “hold until” date speci- fied for the job.
\$JTS_TIME	Range	Allows you to check the “hold until” time speci- fied for the job.
\$MHS_USER_HOLD#	Range	Allows you to check the number of MHS_USER HOLD JECL statements.

ThruPut Manager Initialization Statement Changes

UCS uses the parameters DJC, JTS, and UHS in the OPTIONS keyword of the JES2 initialization statement TMPARM.

JES2 Initialization Statement for UCS	
Refer to Installation Guide	
Statement	Purpose
TMPARM	Keywords added to enable and disable UCS components.

The initialization statements JTS OPTIONS and DJC SET allow you to set global defaults. Additionally, the UCS SET initialization statement provides some control over the selection order of jobs in the same Service Class. You can promote a job over jobs that have arrived earlier by setting its arrival time; however, jobs with arrival times that are earlier than the newly set arrival time are still selected first.

The syntax of these statements is described in the chapter “TMSS Initialization Statements” in the *Base Product: System Programming Guide*.

Initialization Statements for UCS	
Refer to Base Product: System Programming Guide	
Statement	Purpose

Initialization Statements for UCS	
Refer to Base Product: System Programming Guide	

DJC SET	Sets global defaults for DJC.
JTS OPTIONS	Sets global defaults for JTS.
UCS SET	Sets UCS handling of arrival time.

Operator Command Changes

UCS provides operator commands to manage its parameters and availability, and to display and modify certain aspects of jobs under its control. These are described in the *Operating Guide*.

Operator Commands for UCS	
Command	Purpose

DJC ? HELP	Displays a list of all the commands available with the DJC function.
DJC CLOSE	Allows an operator or user to close a DJC Group in the same manner that a CLOSE signal from a job would.
DJC DELETE	Deletes DJC history data for the specified DJC Group.
DJC DISPLAY	Displays information about the current state of DJC and jobs managed by DJC.
DJC HOLD	Requests a user hold for a job managed by DJC or for a DJC Group.
DJC PURGE	Purges a job managed by DJC from DJC management.
DJC RELEASE	Releases a job or DJC Group that was previously held by a / DJC HOLD command.
DJC SET	Allows an operator to specify certain default values.
DJC SIGNAL	Allows an operator/user to signal an event or completion of jobs.
JTS ? HELP	Displays a list of all the commands available with the JTS function.
JTS DISPLAY	Displays jobs that are under the control of JTS or the current JTS options.
JTS RESET	Allows you to reset any date and time dependency of a job under the control of JTS and is awaiting execution.
MHS_USER ? HELP	Displays a list of all the commands available with the MHS_USER function.
MHS_USER DISPLAY	Displays jobs that are in the MHS_USER hold category.
MHS_USER RELEASE	Removes a job from the MHS_USER hold category.
TM OPTIONS	<i>Changed.</i> Allows you to enable, disable, and display the status of ThruPut Manager components.

Installation Summary

The steps required to implement UCS are:

1. Install the UCS modules as per the instructions contained in the accompanying *Installer's Guide*. This component includes several ISPF panels and a TSO command. These elements are placed in the proper libraries during the installation of ThruPut Manager. To activate UCS, you must

concatenate the DTMMENU, DTMPEMU, and DTMTENU datasets defined during the INSTALL process to your current ISPF environment.

2. When UCS is installed according to the *Installer's Guide*, the option names DJC, JTS, and UHS are added to the selection of options that can be controlled through the OPTIONS keyword of the TMPARMJES2 initialization statement and the TM OPTIONS operator command. The default for these options is *enabled*, therefore no special action is required to activate them.
3. Review the DJC SET initialization statement to ensure the DJC defaults reflect your installation's operating environment.
4. Review the JTS OPTIONS initialization statement to ensure the JTS defaults reflect your installation's operating environment.
5. Review the UCS SET initialization statement to ensure the UCS defaults reflect your installation's operating environment.
6. Restart ThruPut Manager on all systems.

After these steps have been completed, UCS is installed and ready for use by your users.

