# **Change Management**

Computing and Telecommunications Services



### WRIGHT STATE UNIVERSITY

# Agenda

- Overview
- Definitions
- Types of Changes
- Risk Assessment
- Process
- Using ServiceNow

# Overview



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# **Definitions**

- Change
  - The addition, modification or removal of anything that could have an effect on IT services.
  - Includes, but not limited to:
    - Hardware (e.g., servers, switches, phones, projectors, printers, etc)
    - Software (e.g., installing/upgrading/removing software from a server, "Patch Tuesday")
    - Code (e.g., making changes to application code)
    - Cabling
    - Applications (e.g., upgrading to Banner 9, deprecating DARS, ServiceNow upgrade to Kingston, etc)
    - Services (e.g., Home Base, Help Desk)

# **Definitions**

- Change Management
  - The process responsible for controlling the lifecycle of all changes, enabling beneficial changes to be made with minimum disruption to IT services. (ITIL ST, 306)

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# **Definitions**

- Change Advisory Board (CAB)
  - A body that exists to support the authorization of changes, and to assist the change management process in the assessment, prioritization, and scheduling of changes.
  - Approval must be unanimous

# **Definitions**

- Change Advisory Board (CAB)
  - Standing meeting Wednesdays @ 2pm
    - · May get rescheduled depending on schedule conflicts
  - Standing members:
    - Change Manager (Jonathan Jackson)
    - Chief Information Security Office (Mike Natale)
    - Director, Client Services (Kenny Coon)
    - Director, Information Services (Michael Stankas)
    - Director, Technical Services (Larry Fox)
    - Manager, Service Desk (Reid Allen)
    - Individual performing each Change on the agenda
       Change Coordinator
    - Others as deemed necessary

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# **Definitions**

- Emergency Change Advisory Board (eCAB)
  - Subset of the CAB responsible to review
     Emergency Changes, generally on an ad hoc basis, possibly virtual.
  - Emergency Changes require approval from Director-level or higher.

# Types of Changes

Normal Change	Any change that is not a routine change or an emergency change. These types of changes do not have a pre-authorized/pre-approved procedure or work instruction, are not routinely performed, or are not considered low risk. Normal Changes must be approved by the CAB each time they are performed.  Example: Voicemail system upgrade, Upgrade to Banner 9
Emergency Change	A change that must be implemented as soon as possible, either to resolve a major incident, prevent a major incident, or to mitigate a security vulnerability.
Routine Change (Note ITIL calls this a Standard Change, so it's possible that terminology may appear in documentation, ServiceNow, etc)	A pre-authorized change that is low risk, relatively common, and follows a procedure or work instruction previously approved by the CAB.
	Example: Firewall policy changes, add/move a printer

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# When is a Change a Change?

- Question usually comes up regarding very low risk Routine Changes
- If what you're doing changes:
  - Consumption
  - Use
  - Function
- It is a Change

### WRIGHT STATE UNIVERSITY Risk Assessment Dependencies + Impact + Priority + Scope = Risk Level Change can not be backed Complex Moderate implementation Change is easily or validation/testing. validated or backed out, or testing/validation implementation or validation/testing; or must be performed on out production services required extended change window, or change exceeds 2.0 4-8 High hours in length 9-12 Medium 13-16 Impact Affects all services, servers, Affects services, Affects services, servers, Services, servers, and/or networks. servers and/or and/or networks of a single and/or networks networks of multiple department/building will be usable departments/building during the change Service outage for Service outage of a non-Priority Service outage for major No service outage critical systems. critical system. is expected. systems 75% or more users will be 50-75% of users will 25-50% of users will be Less than 25% of affected be affected affected users will be affected Higher risk Lower risk

# 

# Periods of Minimal Changes

- We are not calling these "blackout windows".
   Changes can still occur during these times.
- Changes occurring during times that are critical to the business of the university will receive additional scrutiny; and the CAB may require they be performed outside of these times.
- Flexibility is key. Want to avoid increased risk, but still permit necessary changes.

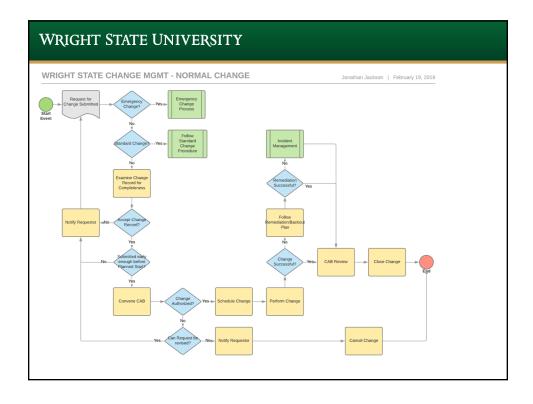
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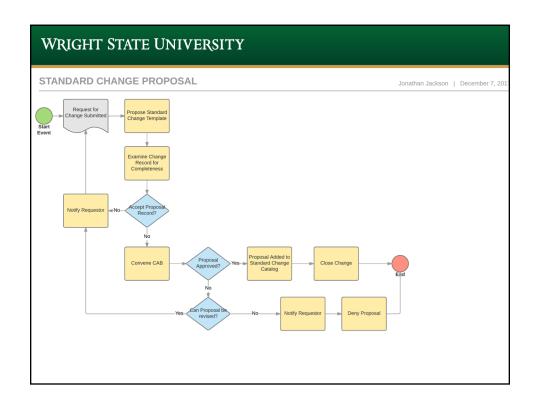
# Periods of Minimal Changes

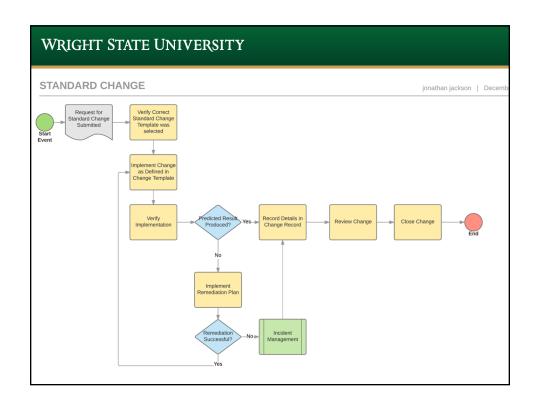
Beginning of the Semester	Begins:	12:01am on the day 1 week prior to the first day of Fall or Spring semester
	Ends:	11:59pm on the day 1 week after the first day of Fall or Spring semester
End of the Semester	Begins:	12:01am on the day 1 week prior to the start of finals week
	Ends:	11:59pm on the day of the final grade submission deadline, as determined by the Office of the Registrar.

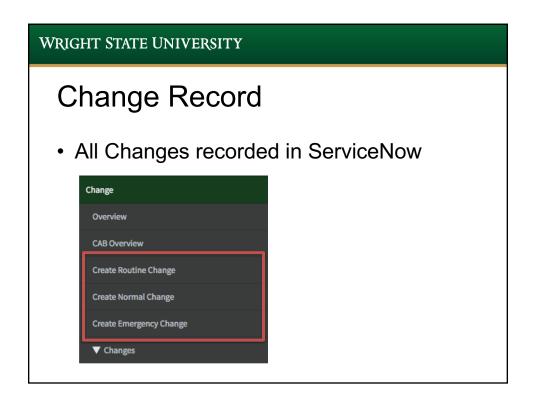
# **Maintenance Windows**

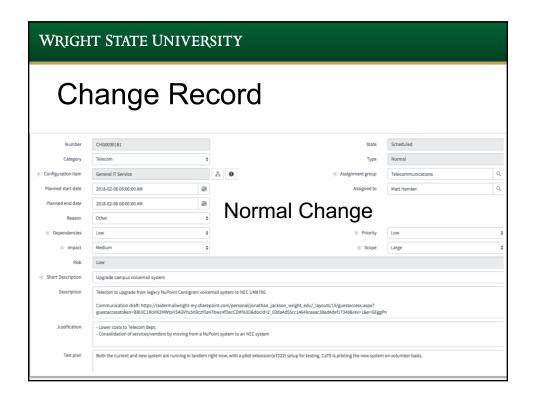
- Changes should be performed at the following times:
  - Every Tuesday: 5:30am 7:30am
  - First Sunday of each month: 6:00am Noon
  - Second Sunday of each month: 6:00am Noon
- The CAB may authorize changes to occur outside of a maintenance window if it is deemed necessary.
- The CAB may authorize Routine Changes to be performed at times other than the defined maintenance windows, including authorizing Routine Changes to be performed at the discretion of the Change Coordinator.

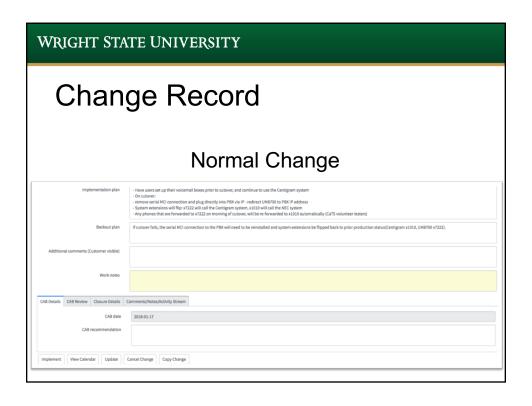


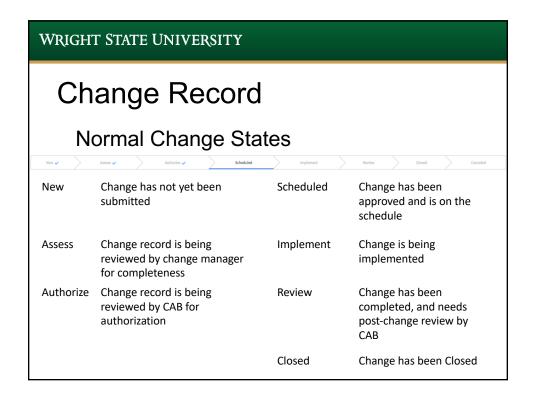


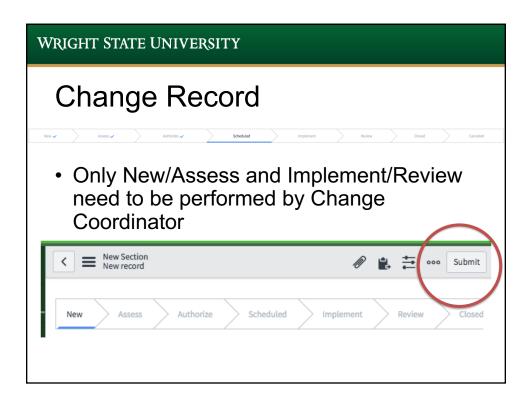


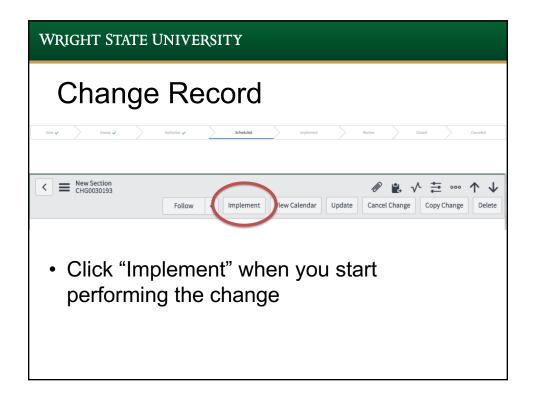


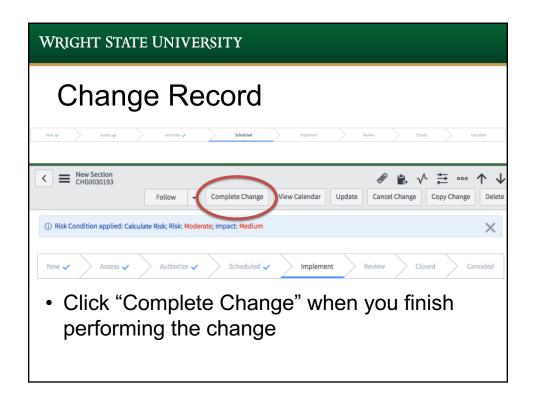


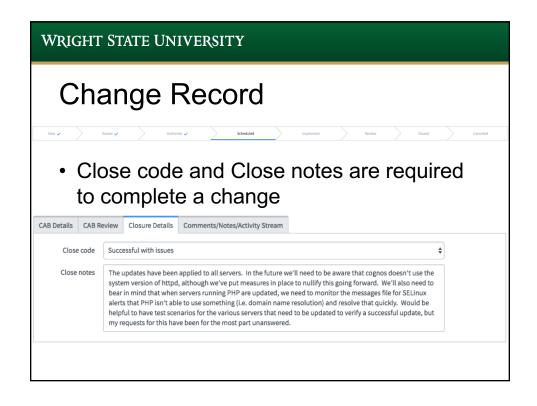












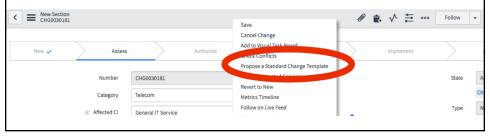
# **Routine Change Proposal**

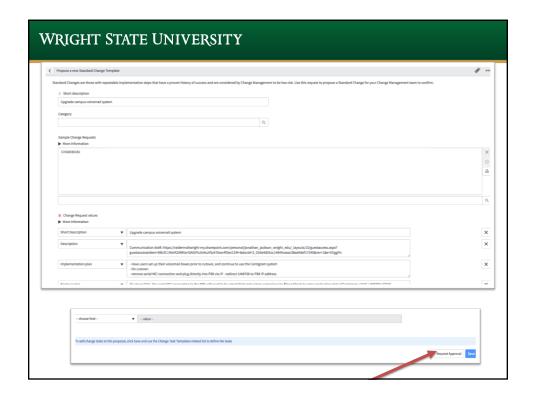
- All routine changes must first receive CAB approval to be considered routine.
- Changes must have a defined and consistent process to implement.
- Must be low risk

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# **Routine Change Proposal**

- Easiest way to create:
- 1. Create a Normal Change
- 2. Right-click in header, select "Propose Standard Change Template"

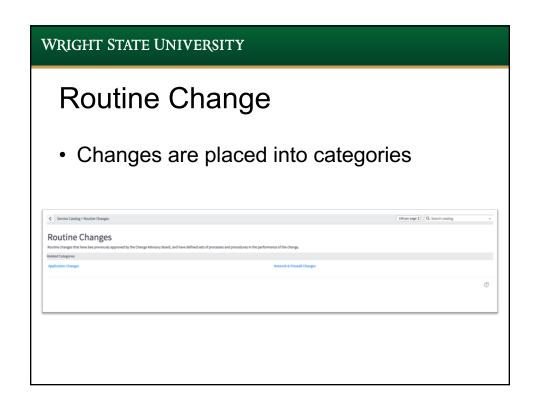


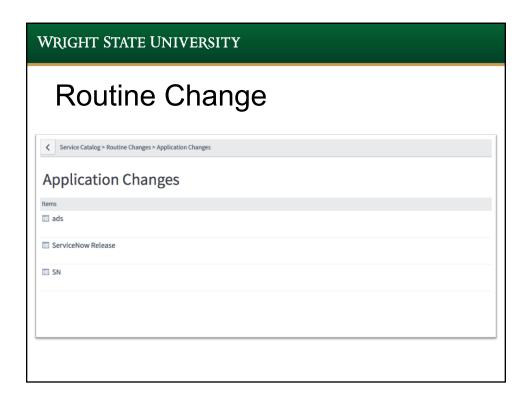


# **Routine Change Proposal**

- Routine Change Proposal will be reviewed by CAB
- Once approved, routine changes can be performed without further CAB approval
  - Only during agreed maintenance windows
  - Each Routine Change still gets logged

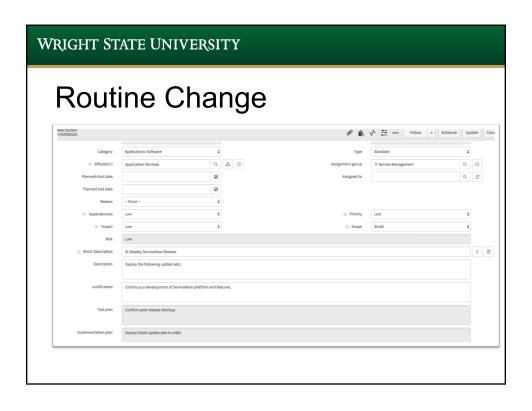
# Routine Change • After a Routine Change has been approved, it will appear in the Routine Change catalog Change Change Overview CAB Overview Create Routine Change Create Emergency Change Create Emergency Change

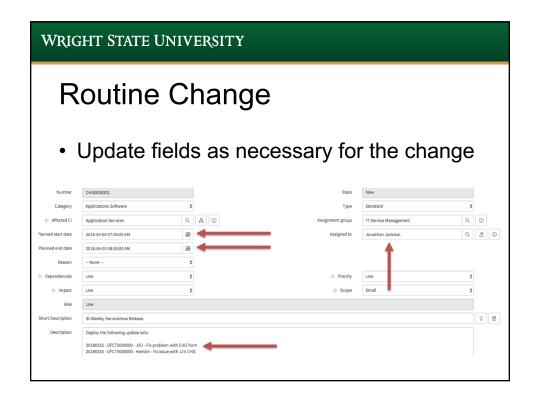


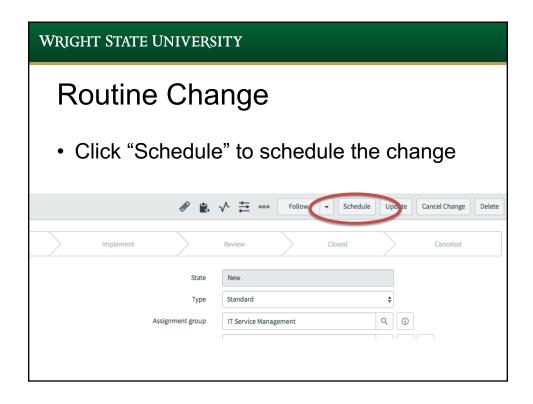


# Routine Change

- Clicking a change created a new Routine Change record
- All information in the original proposal gets copied into the change record







# Routine Change

- Just like a Normal Change:
  - Click "Implement" when you start the change
  - Click "Complete Change" when you are done

# Viewing Change Records Change Coverview: dashboard of changes scheduled this week and last week Create Routine Change Week and last week Changes Assigned to Me/Team: list of changes assigned to you or to members of any of your teams/groups

