Next Generation Notifications

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Outline

1) Feature Rundown
2) For Developers
3) Outlook
Feature Rundown
Feature Rundown

- Unified notifications and job reporting
- Do not disturb mode
- History grouped by applications
- Interactive previews
- Highly configurable
/* The data flow is as follows:
 * NotificationsModel      JobsModel
 * \                 / \\
 * \                 / / KConcatenateRowsProxyModel
 * \               / |||
 * \               / |||
 * NotificationFilterProxyModel
 * (filters by urgency, whitelist, etc)
 * |
 * NotificationSortProxyModel
 * (sorts by urgency, date, etc)
 * |
 * --- BEGIN: Only when grouping is enabled ---
 * |
 * NotificationGroupingProxyModel
 * (turns list into tree grouped by app) \\
 * /\\
 * \\\
 * NotificationGroupCollapsingProxyModel
 * (limits number of tree leaves for expand/collapse feature)
 * \/
 * /\ \\
 * KDescendantsProxyModel
 * (flattens tree back into a list for consumption in ListView)
 * |
 * --- END: Only when grouping is enabled ---
 * |
 * LimitedRowCountProxyModel
 * (limits the total number of items in the model)
 * |
 * |
 * \o/ <- Happy user seeing their notifications */
Feature Rundown

Notifications

Do not disturb

For 1 hour

Until this evening
Until tomorrow morning
Until Monday

Google Chrome

Download läuft
neon-user-20190815-1120.iso nach Downloads

3 min verbleiben
### Feature Rundown

#### Critical notifications:
- Show in do not disturb mode
- Always keep on top

#### Low priority notifications:
- Show popup
- Show in history

#### Popup position:
- Near the notification icon
- Choose Custom Position...

#### Hide popup after:
- 4 seconds

#### Application progress:
- Show in task manager
- Show in notifications
  - Keep popup open during progress

#### Notification badges:
- Show in task manager

#### Applications:
- Configure...
For Developers
For Developers

- Make sure qApp desktopFileName is set
- Add DesktopEntry=com.example.app.app to notifyrc file
- KNotification sends it automatically
- `notify_notification_set_hint(n, "desktop-entry", "com.example.app.app");`
For Developers

- Consider setting an urgency
  - Low, Normal, High, Critical

- KNotification::setUrgency
- Urgency= in notifyrc
- notify_notification_set_urgency
• Use default actions
  – `KNotification::setDefaultAction`
• Prefer icon names over pixmaps
  – `KNotification::setIconName`
• Add preview, if applicable
  - `KNotification::setUrls( {... } );`
  - `x-kde-urls`
For Developers

- Additional notification hints
  - x-kde-display-appname
  - x-kde-origin-name

- \texttt{KNotification::setHint(name, value)}
Outlook
• **More do not disturb triggers**

  Do not disturb

  Screens are mirrored

• **Quick reply**

Chat App

Super annoying chat group

Max: This reply stuff is gorgeous.

Reply to Max...  Set Sail for Adventure
• **KNotificationV2**
  - Proper platforms rather than Actions
  - Reduced dependencies (widgets, etc)
  - Fewer API obstacles

• **Figure out history**
  - resident, transient, persistence? Exclude flag?
  - Proprietary extension to spec? Unique notification identifiers?
KNotifications BoF
Tuesday, 09:30
U3-08